

ROYAL[®]

alpha

9150

Cash Management System

Instruction Manual

40 Departments

999 PLUs

Two Line
Operator Display

Two Station
Alphanumeric
Printer
Alphanumeric
Receipts



**Easy
Set-up
Instructions**
Page 13

WELCOME...

to the Royal family of fine business machines.
We sincerely hope you will enjoy the many benefits
of being associated with a distinguished product
name that has represented both quality and
customer satisfaction since 1905.

This electronic cash register is designed to help your business function smoothly by providing efficient register operations and accurate management reports. Start-up is quick and easy, yet there are many options that can be added and revised so that you can customize your operations for optimum productivity. Here are just a few of the register's many valuable features:

- Heavy-duty alpha-numeric printer with journal and receipt printouts. Allows the printing of both letters and numbers on the receipt and journal tapes.
- Alpha display shows alpha descriptions in both program and register modes.
- Alpha keyboard cuts programming time in half!
- Program your own store name - 5 lines by 18 characters each.
- 40 departments allow you to categorize merchandise sold. Each department can be programmed with a 12 character description, i.e. - "Food", "Beverages", etc.
- 999 Price Look-Up (PLU) settings with programmable 12 character descriptions guarantee pricing accuracy and records the number of items sold.
- 26 clerk numbers monitor sales of individual employees. Program each clerk name - up to 18 characters (maximum).
- Automatic tax computation available for 4 different tax rates (either Add-On or VAT).
- Periodic management reports provide up-to-date sales analysis, including mid-day, end-of-day, weekly or monthly totals.
- Memory protection of records maintains financial records during power outage.
- Clock displays time and automatically prints date and time on receipt and transaction records. Choice of 12 hour or 24 hour formats available.
- Training mode available for new users.

PLUS...

The ROYAL CONSUMER PRODUCT SUPPORT HOTLINE gives you the opportunity to call for start-up assistance and problem resolution or for ordering supplies. During East Coast business hours, just dial:

800-272-6229 or 908-429-HELP (4357) (E.S.T.)

Or visit our web site for more information and troubleshooting at www.royal.com

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UNPACKING YOUR CASH REGISTER and SET-UP

PREPARATION

When your cash register is new in its factory packaging, you will find the various items for the register packaged separately. Look for and unwrap the following: 2 paper rolls and duplicate key sets for the Control Lock and Cash Drawer/Journal Lock. The black journal winder spindle is secured by tape inside the printer cover.

STANDARD ACCESSORIES

The following are included in the box with your cash register:

- Instruction manual.
- 1 black plastic journal winder spindle.
- 2 rolls of standard paper tape, Royal Reorder Number 013133.
- 1 purple ribbon (already installed), Royal Reorder Number 013020.
- Keys: (2) Cash Drawer/Journal Lock keys (515).
(2) Program keys (PRG, 427-023).
(2) Register keys (REG, 427-024).

INITIAL SET UP

IT IS IMPORTANT THAT YOU READ THE INITIAL SET-UP AND MAINTENANCE INSTRUCTIONS BEFORE ATTEMPTING TO OPERATE THE CASH REGISTER.

1. Locate on level surface - Before operating the cash register, be sure it is placed on a level surface to permit smooth operation of the register cash drawer.
2. This cash register operates on any standard three-hole electrical outlet (115-120 volt, 60 hertz). It is recommended that the cash register be connected to an electrical circuit where no other electrical device or appliance is connected which may overload the circuit or cause electrical interference with the cash register. It is best that a single circuit be provided for register operations.
3. Be sure the cash register is plugged in.
4. Install paper - Refer to Page 9 for paper installation instructions.

MAINTENANCE OF YOUR REGISTER

- Your register must remain uncovered when turned on; this will allow proper cooling of electronic components.
- Use a dust cover when the register is not in operation to protect mechanical components from dust.
- Take care to keep beverages and other liquids away from the machine to avoid spills which may damage electronic components (use optional protective keytop cover to prevent damage to machine).
- To clean, use a soft dry cloth. Do not use harsh solutions containing alcohol.
- Your machine should be kept in areas free from dust, dampness or extreme temperatures (hot or cold).
- After storage in extreme temperatures (below 32 degrees fahrenheit or above 104 degrees fahrenheit), allow the temperature inside the machine enough time to reach room temperature before switching on.
- Never pull the paper tape through the printhead. To prevent damage, always use the electronic paper feed keys.
- Should electronic service be needed, a Royal authorized service center is recommended.

GETTING TO KNOW YOUR CASH REGISTER

USING THIS MANUAL

Your cash register manual is organized for easy reference. The front portion contains general information on all features and functions of the cash register. Instructions for setting the programs are next. Transaction examples for operating the register are at the back of the manual, along with information on troubleshooting. Use the TABLE OF CONTENTS to locate a particular section you are interested in.

Throughout this manual references to the keypad are shown in bold and in parenthesis; for example: **ENTER** the number (1). References to the Operational keys are shown in brackets; for example: **PRESS** the [AMT TEND/TOTAL] key.

HOW TO GET STARTED

Before you begin to program or use your new Royal Cash Register, you should spend some time becoming familiar with the Control Lock System, Keyboard Functions and the Display. Review setting up and basic maintenance information. Then proceed by installing the paper roll. Follow the easy Quick Start program. Finish by practicing the transaction examples provided.

PROGRAMMING THE CASH REGISTER

Simple step-by-step instructions are provided to help you quickly program your register for standard operations. Please refer to the Quick Start programming on Pages 13-15.

OPERATING THE CASH REGISTER

Transaction examples are provided for registering various operations, such as a cash, check, or charge sale; tendering change; multiple item sale; PLU sale; split tendering; voiding; refunding; discounting; coupon reduction and more. For details see Pages 48-64.

PROBLEMS WITH USAGE OF THE CASH REGISTER

If you are having technical difficulties or if your cash register is malfunctioning, refer to the Troubleshooting section on Page 74.

SECURITY SYSTEM and ERROR CONDITIONS

SEVEN-WAY SECURITY SYSTEM: Your Royal cash register is protected by an efficient security system that incorporates the following:

- A Control Lock that cannot be activated without the Register or Program key. The Register key accesses the "OFF" mode and "REG1" and "REG2" modes only, thus limiting access to other modes to individuals who are authorized to use the Manager key.
- A Journal/Receipt Compartment that can be locked to prevent journal tampering and unauthorized receipt manipulations.
- A securely locked cash drawer.
- High digit lockout option which inhibits excessively high register over rings.
- Availability of 26 clerk numbers to monitor access and sales of individual operators. Clerk names print on both receipt and journal tapes.
- 2-way Password system to prevent unauthorized programming or printing of management reports. A password can be programmed to limit access to "PRG" and "Z" positions only and a separate password to limit access to the "X" position only.
- A broad range of management reports to provide detailed data on virtually all cash register operations performed on the machine; monitors use of the "No Sale" key, number of voids, refunds, etc.

ERROR CONDITIONS

REGISTER TONE - This cash register emits a brief audible tone that sounds to confirm registration each time a key is pressed.

ENTRY ERROR ALARM - When using the register, all operations must be performed in the proper sequence. If an error occurs, the register will sound a continuous tone alarm ("ERROR" appears in the display and the Keyboard locks). To clear the error/lock condition, the operator simply **presses** the [CLEAR] key and continues to operate in the proper sequence. **IMPORTANT** - When an operation is begun but not completed in the "REG1" or "REG2" positions, turning the control lock to another position will result in an alarm/error condition. When a transaction is begun in either the "REG1" or "REG2" position, it must be completed by use of one of the totalizer keys (i.e., the [AMT TEND/TOTAL] key) before changing the Control Lock to another position.

MAXIMUM ENTRY LOCK-OUT - To prevent the operator from making an entry into the register of an erroneously high price, the register can be programmed to limit the number of digits that can be entered in the transaction. The register can be programmed to "Lock-Out" after an entry of one (.09) to seven (99,999.99) digits.

CLEAR KEY [CLEAR] - As described above, the Clear [CLEAR] key will erase an alarm condition caused by an operational error (usually pressing a key which was not proper for that operation). The [CLEAR] key will not erase a transaction which has been registered by an operating key and printed on the register tape. To erase entries made in error after pressing the Department key or any other operating key causing the entry to be printed on the tape, use the Void [VOID] key function to correct the error.

CLERK ERR - If the clerk system is activated and a transaction is attempted this message will appear on the display and the error tone sounds. Press [CLEAR] and enter a clerk number followed by the [CLERK] key.

PE-PRINTER ERROR - If a "PE" is displayed, first check if you are out of paper. Second, check for a paper jam. Follow the directions in the Troubleshooting section of this manual on Page 74.

HALF SYSTEM CLEAR - If an error tone still persists, perform a Half System Clear. For details on a Half System Clear see Page 76.

FULL SYSTEM CLEAR - If the operator cannot correct an error lock condition, as a last resort a Full System Clear should be done. For details on the Full System Clear see Page 76.

CONTROL LOCK SYSTEM

THE CONTROL LOCK: Located at the top of the operating area, the Control Lock is a switch that places the cash register into its several operating modes. These modes are:

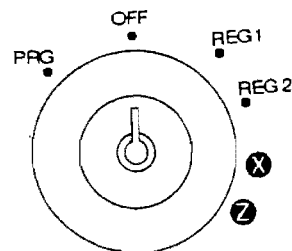
Program Mode (PRG): The position is used to set and change your individualized programming for register operations.

Locked Mode (OFF): This position is used when the cash register is not in use. The register is inoperable and the cash drawer stays closed.

Register Mode (REG1) - Receipt Mode: (Recommended setting if you wish to issue a customer receipt). Store name/logo will print. Also feeds several lines between receipts. **(REG2) - Journal Mode:** Recommended setting if you do not wish to issue a customer receipt; no store name/logo will print; also feeds only 1 line between receipts.

Report Mode (X): Permits reading of all transaction totals at any time without clearing the register (normally known as a "mid-day" reading). This cash register is capable of producing numerous management reports.

Reset Mode (Z): Permits reading of all transaction totals and clears all transaction totals to zero, except the running grand total (normally known as the "end-of-day" or "daily close-out" reading). This cash register is capable of producing numerous management reports such as weekly/monthly readings.



CONTROL KEYS: Two pairs of keys are provided for the Control Lock and the Cash Drawer/Journal Lock.

Register Key (REG): Provides movement to the OFF, REG2, REG1 and "X" modes only. (Note: A Manager Password is available exclusively for the "X" position, for details see Page 19).

Program Key (PRG): Provides access to all of the operating modes. This system effectively limits access to the PRG, X, and Z modes to individuals who are authorized to use the PRG key only. (Note: A separate Manager Password is available for each "X" and "PRG/Z" positions, for details see Page 19).

Journal Lock/Cash Drawer Key (515): Used to lock both the cash drawer and journal compartment for additional security.

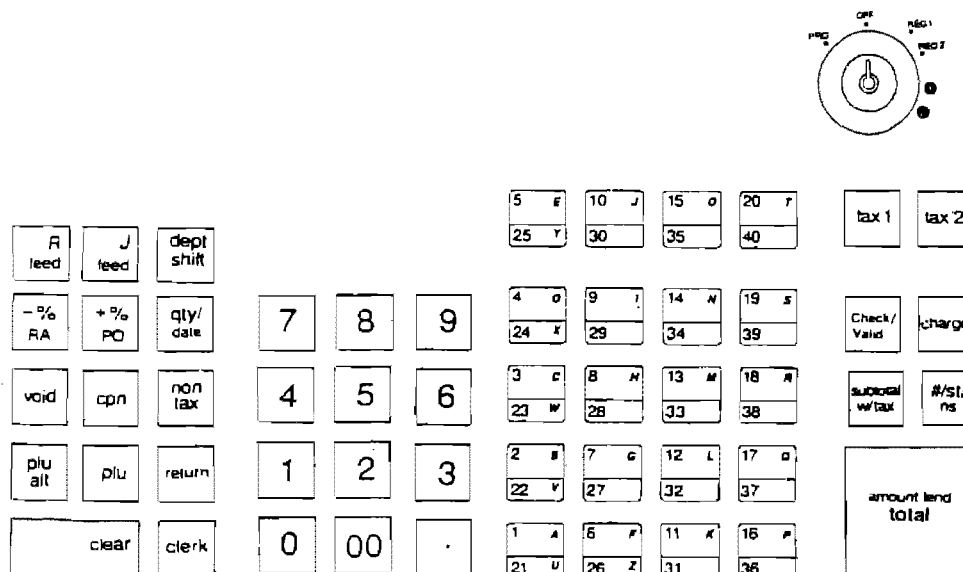
REMOVABLE CASH DRAWER WITH LOCK: The cash drawer will automatically open after completing a transaction by pressing the [# /ST /NS] key, or by the hidden emergency lever underneath the register.

The cash drawer is electronically locked when the Control Lock is in the "Off" position. In addition, the cash drawer is designed with a security lock and when used with the Cash Drawer key, manually locks the cash drawer and prevents electronically opening it by the [# /ST /NS] key or by the hidden emergency lever underneath the register.

The Bill Tray and Coin Tray can easily be removed from the register by lifting up on the open drawer and pulling toward you.

KEYBOARD FUNCTIONS

FIGURE 1: Control Lock and Keyboard Functions



KEYBOARD FUNCTIONS

The following key functions are primarily for cash register entries in REG1 or REG2 mode. Several keys also have other functions in the PRG, X and Z modes which are explained further in the manual.

- (1) **R Feed** - advances the Receipt paper one line and **J Feed** - advances the Journal paper one line.
- (2) **Minus/Coupon key [CPN]** is used to subtract a specific amount from an individual item.
- (3) **Quantity and Time key [QTY/DATE]** - double function - is used to multiply a number of items entered at one price and to display the current date.
- (4) **Minus Percentage Discount key [-%/RA]** - double function - (-%) is used to subtract a percentage rate such as an employee discount from an individual item. The rate can be pre-programmed or manually entered. **Received-On-Account key (RA)** is used to register dollar amounts placed in the cash drawer that are not part of a sales transaction. Also used to register payments made to a customer's charge account or to declare the starting amount of cash in the drawer for the day.
- (5) **Plus Percentage [+%/PO]** - double function - (+%) is used to add a percentage rate such as a service charge or gratuity to an individual item. The percentage rate can be pre-programmed or manually entered. **Paid-Out key (PO)** is used to register dollar amounts taken out of the cash drawer; i.e., petty cash.
- (6) **Clear key [CLEAR]** clears the display to correct an entry before it is processed. Also stops error alarm when incorrect entries are made.

KEYBOARD FUNCTIONS

- (7) **Void/Error Correction key [VOID]** - 3 functions - **Void** is used for correcting a particular entry after it is processed and printed or as the Error Correct function, it is used for deleting the last item entered. **Void** also functions as a backspace and correct key during programming of alpha descriptions.

- (8) **Clerk key [CLERK]** is used for entering clerk numbers.

- (9) **PLU/Release key [PLU ALT]** is used to temporarily override a price which was preset to a PLU number.

- (10) **PLU key [PLU]** allows the numbers from 1 to 999 to be used as codes for pre-programming merchandise prices, to maintain a tally of cost and quantity of the merchandise sold. Each PLU can be programmed with a 12 character description.

- (11) **Tax 1 key [TAX 1]** adds a tax amount to the sales figure according to the tax rate programmed for this key. Tax 1 key is normally used to program a single tax rate required by a particular area or state. It can also be used to override the pre-programmed tax on a department key.

- (12) **Tax 2 key [TAX 2]** adds a tax amount to the sales figure according to the tax rate programmed for this key. Tax 2 key is normally used to program a second tax rate required by a particular area or state. It can also be used to override the pre-programmed tax on a department key.

- (13) **Numeric Input keys (0-9/00/.)** are used to input dollar amounts of merchandise sold, to indicate how many times a particular item repeats, to add and subtract percentages in conjunction with the -% and +% keys, to input department code numbers, to handle figures that require a decimal point and for other numeric value-related entries. Double Zero (00) allows for quick entry of numbers with two or more zeros. Decimal Point (.) is used to enter fractional quantity of items being sold. In all modes, the Decimal Point is not to be used when entering a price.

- (14) **Department keys [1-20]/[21-40]** are used to specify which department the transaction is for. Each department can represent a category of merchandise sold and can be programmed as taxable or non-taxable. **NOTE: The department keys with letters are used in the program mode when programming alpha descriptions.**

- (15) **Department Shift key [DEPT SHIFT]** is used to make entries for departments 21-40. Press Shift before each department entry for departments 21-40. The register goes back to the non-shift mode after each department entry.

- (16) **Non Tax key [NON TAX]** is used when no tax is to be registered for a department that is programmed for tax.

- (17) **Check/Valid key [CHECK/VALID]** - double function - **Check** is used to finalize a transaction paid by a check. **Valid** is used to validate a given form, such as checks or credit card slips, with one line of printed information.

KEYBOARD FUNCTIONS

- (18) **Return key [RETURN]** is used for issuing refunds for returned merchandise.

- (19) **Charge key [CHARGE]** is used to finalize a transaction paid by a credit card or can be used to denote an in-house charge.

- (20) **Subtotal With Tax key [SUBTOTAL/W/TAX]** - double function - **Subtotal w/Tax** displays the total sales amount, including sales tax. It is not printed on the register receipt until the sale is finalized by pressing either the [CHECK/VALID], [CHARGE] or [AMT TEND/TOTAL] key. Also can be used to print a second receipt.

- (21) **Subtotal, No-Sale and Non-Add key [#/ST/NS]** - triple function - As the No-Sale key, it opens the drawer without registering any amounts; for example, to give change. The Non-Add key function allows entering, up to 10 digits, a reference number which prints on sales receipts. As the Subtotal key, it displays and prints the subtotal of a sale without sales tax.

- (22) **Amount Tendered Total key [AMT TEND/TOTAL]** is used to finalize a transaction paid by cash and calculates the amount of change required from the cash received.

Date and Time Display: Press the [QTY/DATE] key in the register mode to show the date. The date will change to the time when no keys are touched for 30 seconds. The [QTY/DATE] key is a double function key where, during a transaction, it is used to multiply the quantity of items sold where an item is repeated.

LEAVING THE REGISTER PLUGGED IN: Keep the register plugged in and at the "OFF" (Locked) position when not in use. The keyboard is then inoperable and the cash drawer is electronically locked, but a minimum amount of power maintains the programs and transaction data totals.

OPERATOR DISPLAYS



Your cash register provides two displays, 1 line alpha and 1 line numeric, which feature large, easy to read fluorescent digits for easy operator viewing. The alpha capacity is 10 digits for character descriptions in both register and programming modes.

Descriptions which appear on the Alpha (Operator) Display:

- Discount:** Displays when the [-%/RA] key is used to register a percent discount amount.
- Add On:** Displays when the [+%/PO] key is used to register a plus percentage amount.
- Void/Corr:** Displays when the [VOID] key is operated.
- No Sales:** Displays when the [#ST/NS] key is operated.
- Refund:** Displays when the [RETURN] key is operated.
- Non Tax:** Displays when the [NON TAX] key is operated.
- Tax 1/Tax 2:** Displays when the [TAX 1 or TAX 2] key is operated.
- Sec Code:** Displays if a manager password has been programmed. When this appears, the password must be entered.
- Clerk Err:** Displays when clerk numbers have been programmed and the clerk system is active. When this appears, the clerk number must be entered.
- SUBTTL:** Displays when the [SUBTOTAL W/TAX] or [#ST/NS] key is pressed.
- Charge:** Displays when the [CHARGE] key is used to finalize a sale.
- Check:** Displays when the [CHECK/VALID] key is used to finalize a sale.
- Cash:** Displays when the [AMT TEND/TOTAL] key is used to finalize a cash sale.
- Change:** Displays when change is due.
- Error:** Displays when the incorrect key is pressed. Press the [CLEAR] key to reset.
- Coupon:** Displays when the [-/CPN] key is operated.
- R-A:** Displays when the [-%/RA] key is used for a received on account function.
- P-O:** Displays when the [+%/PO] key is used for a paid out function.

When ringing up sales, you will also see the department number or PLU number displayed. If a description or name has been programmed, this description will be displayed

Other descriptions which appear in the Operator (Numeric) Display:

- PE:** Displays if an error is detected in the printer.
- P:** Displays only when you are in the middle of a programming step. *
- Cr:** Displays when the [CHARGE] key is operated. *
- CH:** Displays when the [CHECK/VALID] key is operated. *
- CA:** Displays when the [AMT TEND/TOTAL] key is operated. *
- C:** Displays when change is due. *

* Also appears in the Customer Display.

CUSTOMER DISPLAY

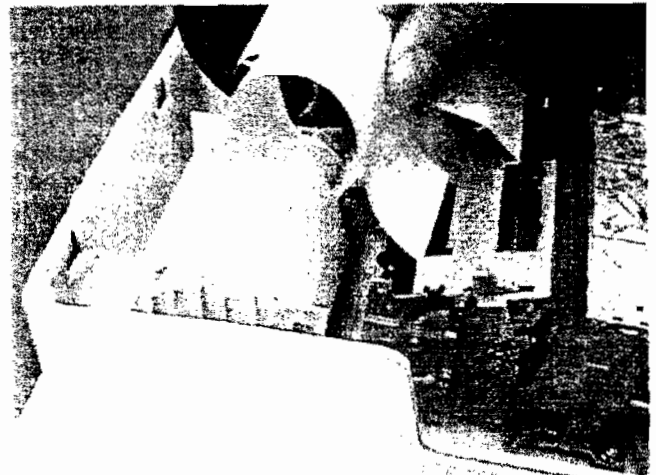
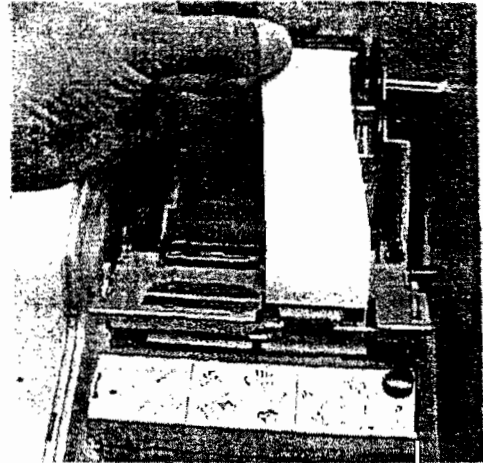
To position the rear customer display, simply pull up and rotate for viewing from any direction. To close, simply turn the display to face the rear of the machine and press down.

INSTALLING THE PAPER ROLL

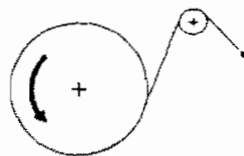
Your cash register features a heavy-duty printer which uses two rolls of 38mm (1 1/2") standard bond paper; one roll (left side) is for the customer receipt and the other roll is for the journal record (right side).

INSTALLING THE PAPER ROLL

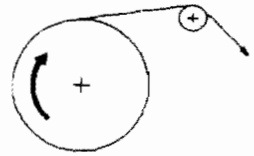
1. Plug in your cash register and turn the Control Lock Key to the "REG1" (Register) mode.
2. Open the journal compartment cover, first be sure that the lock (located on the right side of the journal compartment cover) is unlocked using the Cash Drawer/Journal Lock Key #515. Grip the left side of the journal cover and gently pull upward. Remove the journal cover and set it aside.
3. The Alpha 9150 holds 2 rolls of paper. The one on the left side is for customer receipts and the one on the right is for journal recording.
4. Prepare the paper rolls for installation by cutting a smooth edge for easy feeding through the print head. Lower each roll into the paper roll compartments with the feed coming from under the rolls and toward the front of the register.
5. Feed each roll of paper into the paper slot with the arrows. Then press the J FEED (for journal feed) key until approximately 6 inches of paper is advanced. Now thread the journal paper onto the black journal spindle. Manually turn the spindle several times toward the back of the register to take up any excess paper. Next, place the spindle into the spindle support.
6. Replace the journal cover and press the R FEED key to feed the receipt paper up through the journal cover.



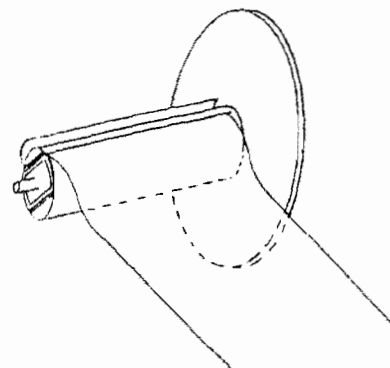
Paper setting direction



CORRECT



INCORRECT



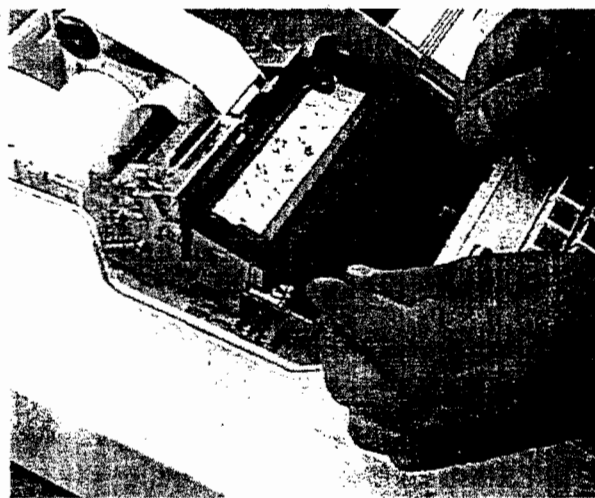
INSTALLING THE RIBBON

Your cash register comes with the ribbon already installed. The ribbon releases special ink to the printhead which produces the printout. After a period of time, depending upon the amount of use, the ink in the ribbon will be used up. When printout becomes faint, the ribbon needs to be replaced.

CAUTION: The ribbon is not designed to be re-inked. Under no circumstances should this be done or permanent damage to your cash register printer may result. Such damage will not be covered under Royal's warranty.

INSTALLING THE RIBBON

1. Open the journal compartment cover, first be sure that the lock (located on the right side of the journal compartment cover) is unlocked using the Cash Drawer/Journal Lock key #515. Grip the left side of the journal cover and gently pull upward. Remove the cover and set it aside.
2. Grasp the handle on the center of the ribbon cartridge and pull the ribbon cartridge towards the front of the cash register in the direction of the arrow on the cartridge and lift up and remove the old cartridge.
3. Remove the new ribbon cartridge from its cellophane package. Be careful not to touch the wet inked portion of the ribbon.
4. To install the new ribbon, holding the handle at the center of the ribbon cartridge, lower the front of the cartridge into the printer frame and guide the ribbon down between the print head and the paper. Press down on the cartridge to snap the ribbon into place.
5. Make sure the paper feeds up behind the ribbon cartridge.
6. After installing the ribbon, replace the journal compartment cover and use the Cash Drawer/Journal Lock key #515 to lock it, if desired.



NOTE: It is recommended to use Royal brand replacement ribbon (color purple), Royal Reorder Number 013020.

QUICK START

The Quick Start program is designed to help you quickly "get started" with the basics you need to run your cash register. It covers only very basic programming of the Decimal Point, Rounding, Date, Time, Tax Rate and Department Status for taxing or non-taxing. Follow the Quick Start straight through, however, skip any steps which are not required for your business needs. As you follow the Quick Start Program, the printed information on the receipt tapes may not correspond to the information you are programming. Once the Quick Start is completed, a program confirmation report can be taken to review your results. As you go through the Quick Start, if an error tone sounds, **PRESS** the **[CLEAR]** key and continue by repeating the step you are attempting to program.

NOTE: It is not necessary to repeat the entire Quick Start program if you wish to update or change a step at any time. Therefore, maintain your owner's manual in a safe place for all future programming.

When referring to the numeric keypad (keys with the numbers 0 through 9), the numbers will be displayed in parenthesis. For example, press the number **(5)**.

When referring to the other operational keys, they will be shown in brackets. For example, press the **[AMT TEND/TOTAL]** key.

IMPORTANT: Read Unpacking Your Cash Register and Set Up (Page 1), Getting To Know Your Cash Register (Page 2), Control Lock System (Page 4), Keyboard Functions (Pages 5-7), Display Windows (Page 8), and Paper Roll (Page 9).

FOLLOW THE QUICK START ON THE NEXT PAGE.

QUICK START: ROYAL ALPHA 9150

Please be aware: As you follow the Quick Start Program, the printed information on the receipt tapes may not correspond to the information you are programming. To verify your results, we suggest printing a Program Confirmation Report. See page 14 for details.

1. Insert the Program key (PRG, 427-023) in the Control Lock and turn to the "PRG" program position.
2. To set the **DECIMAL POINT** to two places - U.S. standard:
Using the gray numeric keys **ENTER (2)**, then **PRESS [-%/RA]**.

Important: In the "REG" (REGISTER) mode, it is not necessary to press the decimal point when ringing up a price.
3. To set the **ROUNDING** to the nearest whole number - U.S. standard:
Using the gray numeric keys **ENTER (50)**, then **PRESS [CHARGE]**.
4. To set the **DATE**, use month-day-year format. Example: For January 24, 1999:
Using the gray numeric keys **ENTER (012499)**, then **PRESS [# /ST/NS]**.
5. To set the **CURRENT TIME**, use military time. Example: To set 10:15 A.M.:
Using the gray numeric keys **ENTER (1015)**, then **PRESS [QTY/DATE]**.

* Reminder: To convert to military time, add the number 12 to every hour after 12:00 noon. For example, to set 1:15 P.M. **ENTER (1315)**. Although the time is programmed using the 24 hour time format, the time can print in the 12 hour format (see Flag 18, Page 37).
6. To set a single fixed **TAX RATE**: If a mistake is made at any time while programming the sales tax, or you receive an error tone, press **CLEAR** and start over with Step A.

A. Using the gray numeric keys **ENTER (1)**, **PRESS [TAX 1]**.

B. **ENTER** the **TAX RATE** as a 4 digit number, then **PRESS [AMT TEND/TOTAL]**.

Example: If your state tax rate is 6%: Using the gray numeric keys **ENTER (6000)**, then **PRESS [AMT TEND/TOTAL]**.

Note: A tax rate of 6.5% will program as (6500). If you wish to program a second or third tax rate see Pages 22 for details.

(Quick Start is continued on the next page)

QUICK START

QUICK START: ROYAL ALPHA 9150 (Continued)

7. **DEPARTMENT PROGRAMMING:** Includes making Departments taxable or nontaxable and pre-set pricing and descriptions.

(Please note that the factory default setting of all departments is non-taxable)

- a) To program a Department as taxable:

Using the gray numeric keys **ENTER (00001)**, **PRESS [SUBTOTAL/W/TAX]**, **ENTER** the **(PRICE*)**, **PRESS** a **[DEPARTMENT]** key, **ENTER** a **DEPARTMENT DESCRIPTION** using the alpha keyboard (Department keys) or the Alpha Numeric Code Chart if needed (see Page 42), then **PRESS [CHECK/VALID]****. Repeat this step for each Department you wish to tax. Then **PRESS** the **[AMT TEND/TOTAL]** key.

- b) To program a Department as non-taxable:

Using the gray numeric keys **ENTER (00000)**, **PRESS [SUBTOTAL/W/TAX]**, **ENTER** the **(PRICE*)**, **PRESS** a **[DEPARTMENT]** key, **ENTER** a **DEPARTMENT DESCRIPTION** using the alpha department keys, then **PRESS [CHECK/VALID]****. Repeat this step for each Department you wish to charge no tax. Then **PRESS** the **[AMT TEND/TOTAL]** key.

* Enter a pre-set price or "0" if no pre-set price is desired.

** If you do not wish to enter a description at this time, after pressing the **[DEPARTMENT]** key, **PRESS** the **[AMT TEND/TOTAL]** key. To program a description at a later time, refer to the procedure on Page 27.

PROGRAM CONFIRMATION REPORT

Now that Quick Start programming is complete, check your results by maintaining the key in the "PRG" mode: **PRESS (999999)**, then **PRESS** the [AMT TEND/TOTAL] key. After the Program Confirmation Report prints, press the feed key to advance the complete report out of the machine.

Your tape should look similar to the Program Confirmation Report shown below. Note: The Date, Time, Tax Rate and Department Status will reflect the information based upon your input. If an error is made during programming, repeat only the step in question. For example, if only the tax rate is incorrect, just re-program the tax - you do not need to re-set the time, date, etc. For more details of the symbols printed in the Program Confirmation Report see Page 46.

* YOUR RECEIPT *		
* THANK YOU *		STORE LOGO OR MESSAGE

DATE	01-24-99	MC #:0000
		MACHINE NUMBER
DEPT 1	1.00T1	PRE-SET PRICE of \$1.00 in Dept. 1
	00001	T1 represents a taxable status programmed with a single tax rate
DEPT 2	2.00	DEPARTMENT STATUS - shows Tax Rate 1 programmed for Dept. 1
	00000	PRE-SET PRICE of \$2.00 in Dept. 2
DEPT 3	0.00	DEPARTMENT STATUS - shows no tax associated in Dept. 2
	00000	(all 40 departments will always print showing taxable or non-taxable status)
DEPT 4	0.00	
	00000	
DEPT 5	0.00	
	00000	
DEPT 6	0.00	
	00000	
DEPT 7	0.00	
	00000	
DEPT 8	0.00	
	00000	
DEPT 9	0.00	
	00000	
DEPT 10	0.00	
	00000	
...	...	
DEPT 40	0.00	
	00000	
COUPON	000-	COUPON STATUS (Tax Status not programmed)
	1.04T1	TAX 1 RATE (fixed rate programmed)
	60.00T1	
	0.00T2	TAX 2 RATE (not programmed)
	0.00T3	TAX 3 RATE (not programmed)
	0.00T4	TAX 4 RATE (not programmed)
DISCOUNT	0.00%-	PERCENT DISCOUNT (not programmed)
ADD ON	0.00%+	PLUS PERCENTAGE (not programmed)
CHARGE	50	ROUNDING STATUS (set at 50)
VOID/CORR	0000000000	
	0000100100	
	0000001101	
	0000	
AM 9-05	0066	TRANSACTION NUMBER
TIME		

DEPARTMENTS (all 40 departments will print the Dept # or name, if programmed)

FLAG OPTION STATUS (a total of 34 flag options will print at either "0" or "1", depending upon the program setting)

(Continue to the next page)

BEFORE GOING TO THE REGISTER MODE

Your Royal cash register offers many additional features not covered in the Quick Start programming. Please note that all programming options are covered in the Advanced Programming section of this manual, even those singled out for use in the Quick Start. Please review a few of the additional programming options available on this register described below which you may choose to add to your basic Quick Start set up. For quick reference, the page numbers are noted by each feature presented:

PROGRAMMING STORE LOGO, DEPARTMENT, PLU and CLERK DESCRIPTIONS: Program your own store name, phone number and commercial message to print on your customers' receipts. Each department and PLU can have a 12 character description (see Pages 27 and 34).

TRAINING MODE (Page 35): Designed to help you get acquainted with the register mode and allows a place for practicing transaction examples without affecting machine totals. Since the Training Mode does not record any transactions performed while in the register mode, it is ideal for beginners. Once activated, no activity can be performed in the "PRG", "X" or "Z" modes unless you exit the training mode.

TRANSACTION EXAMPLES (Pages 47-65): Simple transaction examples are provided for use in the register mode. This section will cover a cash sale, check sale, charge sale, tendering change, multiple items, PLU sale, split tendering, voiding, as well as other frequently used functions. Be sure to have the key in the "REG1" or "REG2" (register) mode when following the transaction examples. **Suggestion: Practice the transaction examples after activating the Training Mode described above.**

CLERK NUMBERS (Page 17): Clerk numbers can be used to monitor sales of 26 individual employees. Each clerk can be programmed with a 18 character description (see Page 17.)

MANAGER PASSWORDS (Page 19): A password can be assigned for the "PRG" and "Z" modes; and a different password can be assigned for the "X" mode.

FLAG OPTIONS (Pages 36-38): A total of 34 system programming options are offered on this cash register. They are preset by the factory to accommodate many of the most commonly used selections. These options can be changed to meet your individual needs.

ADVANCED PROGRAMMING

The options provided by the Advanced Programming are designed to let you customize your cash register operations, sales entry printouts, and management reports to meet your individual business requirements. The Advanced Programming can be used to further add options not covered by the Quick Start Program. Skip any or all sections which are not required in setting up your cash register. Note: During the programming, if an error tone sounds, **PRESS** the [CLEAR] key then continue by repeating the step you are attempting to program.

Note: It is not necessary to reprogram all options when you wish to update or change a step at any time. Therefore, maintain your owner's manual in a safe place for all future programming.

The programming of the cash register consists of the following features:

Clerks Numbers	Minus Percentage Discount (-%/RA)
2 Manager Passwords	Plus Percentage (+%/PO)
Date	Price Look-Up (PLU)
Time Clock	Training Mode
Machine Number	Grand Total Preset
Decimal Point	Transaction Number Preset
Rounding	Z1 and Z2 Counter Preset
4 Tax Rates	Flag Options
Department Status	Programming Confirmation Report
Department Programming	PLU Confirmation Report
Coupon Discount (CPN)	Management Reports (X/Z)

Note: The letter "P" is often displayed during programming procedures.

Once programming is completed, there are two Confirmation Reports available to check your results. A programming Confirmation Report lists all options that are programmed and a Program PLU Confirmation Report lists all the PLUs which are programmed.

A total of 26 Clerk Numbers are available for monitoring sales of individual employees. Each Clerk Number can be programmed with an 18 character name (this procedure is covered in the next section on Page 17). The Clerk Numbers are designed to be used in the REGISTER modes ("REG1" and "REG2") only. To obtain sales totals of each clerk, a Clerk Report is available in both the "X" and "Z" modes. Note: If Clerk Numbers are not programmed, the cash register will still print Clerk One's number on every transaction receipt. Extra Security Option: If desired, a procedure is offered to require entry of a Clerk Number before every transaction, for details see Flag 20, Option 1, Pages 37.

"PRG" + (444444) + [AMT TEND/TOTAL] + [CLERK #] + (SECURITY #) + [CLERK] + [CLEAR]
 1 to 26 000-999

1. Turn the key to the "PRG" (PROGRAM) position.
2. If a PRG/Z manager password has been programmed, ENTER the (PASSWORD #), then PRESS the [CLERK] key, or if you did not program a PRG/Z manager password, go to Step 3.
3. ENTER (444444), then PRESS the [AMT TEND/TOTAL] key. The letter "C" will display in the Customer Display and "Clerk Pass" will appear on the Alpha Display until Step 6 is completed.
4. ENTER (1) for Clerk #1, then ENTER (000) for the Security # and PRESS the [CLERK] key.
5. Repeat Step 4 for programming Clerks 2 through 26.
6. PRESS the [CLEAR] key to finalize.
7. When programming Clerk Numbers is complete, you must first activate the Clerk System by selecting Option #1 on Flag 12. This option will tell you to do the following: ENTER (12)(1), then PRESS the [VOID] key.

TO PROGRAM A CLERK NAME

"PRG" + (Clerk #) + [RETURN] + (Enter Name) + [CHECK/VALID]
(1-26) (18 characters - max.)

Example: For Clerk #1, program name as Sally Smith:

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TO USE CLERK NUMBERS

"REG" + (CLERK #) + [CLERK] 4 digit #
--

Example: If Clerk #1 is 1000:

1. Turn the key to the "REG1" or "REG2" (REGISTER) position.
2. ENTER (1000), then PRESS the [CLERK] key. The clerk name will appear on the alpha display.
3. The cash register is now ready for operation.

The first 2 digits of the display will display the Clerk Number when entered and the alpha display will show the clerk name.

CLERK ERROR MESSAGE

If you see the prompt "Clerk Err" and the error tone sounds, clerk numbers have been programmed and the clerk system is activated. Enter a clerk number and press [CLERK] to proceed.

MANAGER PASSWORDS

Two Manager Passwords are available as an added measure; one password accesses only the "PRG" (PROGRAM) and "Z" modes and the second accesses only the "X" mode. The Manager Password resets every time it is used, therefore once a password has been programmed, it must be entered every time you access the program mode or before every "X" or "Z" reading is taken.

TO PROGRAM THE "X" MANAGER PASSWORD

CAUTION: Please write your passwords down in a safe place. If the passwords are forgotten, a FULL SYSTEM CLEAR procedure will be necessary. A Full System Clear will erase all transaction data and programming. For details on the Full System Clear see Page 76.

"PRG" + (222222) + [AMT TEND/TOTAL] + (MANAGER PASSWORD #) + [NON TAX] 4 digit #

Example: If the "X" password is 1212:

1. Turn the key to the "PRG" (PROGRAM) position.
2. ENTER (222222), then PRESS the [AMT TEND/TOTAL] key. The "X Pass" prompt and the letter "P" will display until Step 3 is completed.
3. ENTER (1212), then PRESS the [NON TAX] key.

TO PROGRAM THE PRG/Z MANAGER PASSWORD

CAUTION: Please write your passwords down in a safe place. If the passwords are forgotten, a FULL SYSTEM CLEAR procedure will be necessary. A Full System Clear will erase all transaction data and programming. For details on the Full System Clear see Page 76.

"PRG" + (111111) + [AMT TEND/TOTAL] + (MANAGER PASSWORD #) + [NON TAX] 4 digit #

Example: If the PRG/Z password is 1313:

1. Turn the key to the "PRG" (PROGRAM) position.
2. ENTER (111111), then PRESS the [AMT TEND/TOTAL] key. The "PRG/Z Pass" prompt and the letter "P" will display until Step 3 is completed.
3. ENTER (1313), then PRESS the [NON TAX] key.

NOTE: If the Manager Password is programmed as (0000), the machine will not acknowledge this password.

TO USE THE MANAGER PASSWORDS

"PRG" or "X" or "Z" + (MANAGER PASSWORD #) + [CHECK/VALID] 4 digit #

- A. Example: Access the "X" mode, the Manager Password is 1212:
1. Turn the key to the "X" mode.
 2. ENTER (1212), then PRESS the [CHECK/VALID] key.
 3. You are now ready to take an "X" Report.
- B. Example: Access the PRG/Z modes, the Manager Password is 1313:
1. Turn the key to the "PRG" (PROGRAM) or "Z" mode as needed.
 2. ENTER (1313), then PRESS the [CHECK/VALID] key.
 3. You are now ready to program or take any reports based on your selection in Step 1.

DATE/TIME/MACHINE NUMBER

The **DATE** is designed to roll over automatically every day and prints in the month-day-year format. Extra Option: If desired, a procedure is offered to eliminate the date from printing on the transaction receipts, for details see Flag 8, Option 1, on Page 36. The date format can also be changed to print day-month-year (see Flag 4, Page 36.)

TO PROGRAM THE DATE

"PRG" + (MONTH-DAY-YEAR) + [# /ST/NS]
6 digit #

Example: To program January 24, 1999:

1. Turn the key to the "PRG" (PROGRAM) position.
2. If a PRG/Z Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. ENTER (012499), then PRESS the [# /ST/NS] key.

The **TIME** is designed to use military time. REMINDER: To convert to military time, add the number 12 to every hour. Example: 1:15 P.M. will program as (1315). Extra Option: If desired, a procedure is offered to eliminate the time from printing on transaction receipts, for details see Flag 9, Option 1, on Page 36.

TO PROGRAM THE TIME

The time can print in either the 12 or 24 hour format. The default setting is to print in the 12 hour mode which is the preferred U.S. setting. To change to the 24 hour format, see Flag 18 on Page 37.

"PRG" + (HOUR, MINUTES) + [QTY/DATE]
4 digit #

Example: To program 10:15 A.M.:

1. Turn the key to the "PRG" (PROGRAM) position.
2. If a PRG/Z Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. ENTER (1015), then PRESS the [QTY/DATE] key.

The **MACHINE NUMBER** is designed to assign each cash register its own identifying number. The Machine Number prints on all receipts/journal records, and management reports.

TO PROGRAM THE MACHINE NUMBER

"PRG" + (MACHINE #) + [+%/PO]
4 digit #

Example: Program the cash register number to be 1234:

1. Turn the key to the "PRG" (PROGRAM) position.
2. If a PRG/Z Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. ENTER (1234), then PRESS the [+%/PO] key.

Confirmation Report: The programming of the DATE, TIME and MACHINE NUMBER is done in a non-print mode. To check your results, a Program Confirmation Report is available. For details see Page 45.

DECIMAL POINT/ROUNDING

The **DECIMAL POINT** is set by selecting from the following 4 options:

	<u>Number</u>		<u>Selection</u>
(zero decimal point)	0	=	\$ X
(one decimal point)	1	=	\$ X.X
(two decimal point)	2	=	\$ X.XX (U.S. Standard)
(three decimal point)	3	=	\$ X.XXX

TO PROGRAM THE DECIMAL POINT

"PRG" + (DECIMAL POINT #) + [-%/RA]
1 digit #

Example: Program the Decimal Point for Option \$X.XX (two decimal places, normally used in the United States):

1. Turn the key to the **"PRG" (PROGRAM)** position.
2. If a PRG/Z Manager Password has been programmed, **ENTER** the (PASSWORD #), then **PRESS** the [CHECK/VALID] key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. **ENTER** (2), then **PRESS** the [-%/RA] key.

Important: In the **REGISTER** modes ("REG1" and "REG2") it is not necessary to press the decimal point when ringing up a price. An error tone will sound if used.

ROUNDING is used to round off figures to the nearest whole numbers. Choose from the following 3 options to select the rounding as needed:

<u>Number</u>		<u>Selection</u>
00	=	Rounds Numbers from .1 - .4 to 0
50	=	Rounds Numbers from .5 - .9 to 1 (U.S. Standard)
99	=	Rounds Numbers from .1 - .9 to 1

"PRG" + (ROUNDING #) + [CHARGE]
2 digit #

Example: Program Rounding to 50 (normally used in the United States):

1. Turn the key to the **"PRG" (PROGRAM)** position.
2. If a PRG/Z Manager Password has been programmed, **ENTER** the (PASSWORD #), then **PRESS** the [CHECK/VALID] key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. **ENTER** (50), then **PRESS** the [CHARGE] key.

Confirmation Report: The programming of the **ROUNDING** is done in a non-print mode. To check your results, a Program Confirmation Report is available. For details see Page 45.

Four different tax rates can be programmed on your cash register. Each tax rate can be linked directly to a Department key or by pressing the [TAX 1] or [TAX 2] keys before ringing up an entry. Extra Option: If desired, a procedure is offered to eliminate the tax rate from printing on transaction receipts, for details see Flag 6, Option 1, on Page 36.

Each Tax Rate can be programmed as follows:

- a. As an ADD-ON RATE (used in the USA) - which means the tax amount prints separately on the receipt. Add-on Tax is most common in the United States. Add-on Tax can be programmed as either a fixed-rate which charges tax based on a percentage, or using the tax table codes, which is a calculation based on an approved tax chart issued by your local or state government.
- b. VAT (Value Added Tax) which means that the tax amount is included in the price of the item.
- c. CANADIAN TAX SYSTEM - allows the programming of GST/PST tax system required in Canada. For Canadian tax programming, see Appendix III.

TO PROGRAM A SINGLE FIXED TAX RATE

"PRG" + TAX # + [TAX 1] + (TAX RATE) + [AMT TEND/TOTAL]
(1-4) 4 digit #

Note: If a mistake is made or an error tone sounds during programming the sales tax, press [CLEAR] and start over with Step 3.

Example: To program a tax rate of 6%:

1. Turn the key to the "PRG" (PROGRAM) position.
2. If a PRG/Z Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. ENTER (1), then PRESS the [TAX 1] key.
4. ENTER (6000), then PRESS the [AMT TEND/TOTAL] key.

Note: The Alpha 9150 will default to a base tax amount of 10 cents. The base tax amount is the maximum point where no tax is charged. If your state is other than 10 cents, go to Appendix 1, Page 1-g.

TO PROGRAM A SECOND FIXED TAX RATE

"PRG" + TAX # + [TAX 1] + (TAX RATE) + [AMT TEND/TOTAL]
(1-4) 4 digit #

Note: If a mistake is made or an error tone sounds during programming the sales tax, press [CLEAR] and start over with Step 3.

1. Turn the key to the "PRG" (PROGRAM) position.
2. If a PRG/Z Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. ENTER (2), then PRESS the [TAX 1] key.
4. ENTER (7000), then PRESS the [AMT TEND/TOTAL] key.

TAX RATE (Continued)

ADD-ON TAX TABLE RATE (an alternative to using the Fixed Rate Procedure)

Refer to Appendix I to locate the tax table codes listed for your particular state. If your state's tax rate is not listed in Appendix I, refer to Appendix II for instructions on calculating your own state's tax table codes.

TO PROGRAM A SINGLE TAX TABLE RATE

"PRG" + (TAX #) + [TAX 1] + (STATE TAX TABLE CODE) + [TAX 2]
1-4

Repeat for each code

Example: The tax code for Arizona's tax rate of 4% is: 121-240096-13-19-23-27-27-1029-25-25-25-1025. To program:

1. Turn the key to the "PRG" (PROGRAM) position.
2. If a PRG/Z Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. ENTER (1), then PRESS the [TAX 1] key.
4. ENTER (121), then PRESS the [TAX 2] key.
5. ENTER (240096), then PRESS the [TAX 2] key.
6. Continue typing the State Tax Table Codes mentioned and PRESS the [TAX 2] key after each code until finished.

Note: If a mistake occurs during programming the State Tax Table Codes, PRESS the [CLEAR] key and begin again with Step 3.

TO PROGRAM A SECOND TAX TABLE RATE

"PRG" + (TAX #) + [TAX 1] + (STATE TAX TABLE CODE) + [TAX 2]
1-4

Repeat for each code

Example: The tax code for Arizona's tax rate of 5% is: 101-190095-11-17-20-21-1021-20-20-20-1020. To program:

1. Turn the key to the "PRG" (PROGRAM) position.
2. If a PRG/Z Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. ENTER (2), then PRESS the [TAX 1] key.
4. ENTER (101), then PRESS the [TAX 2] key.
5. ENTER (190095), then PRESS the [TAX 2] key.
6. Continue typing the State Tax Table Codes mentioned and PRESS the [TAX 2] key after each code until finished.

Note: If a mistake occurs during programming the State Tax Table Codes, PRESS the [CLEAR] key and begin again with Step 3.

Confirmation Report: To check your results, a Program Confirmation Report is available. For details see Page 45.

VAT TAX RATE (commonly used in Europe)

FLAG 13 MUST FIRST BE PROGRAMMED AS FOLLOWS:

1. Turn the key to the "PRG" (PROGRAM) position.
2. If a PRG/Z Manager Password has been programmed, ENTER the (P [CHECK/VALID] key, or if you did not program a PRG/Z Manager
3. ENTER (13)(2), then PRESS the [VOID] key.

PROGRAMMING THE VAT TAX RATE:

"PRG" + (TAX #) + [TAX 1] + (TAX RATE) + [TAX 2]
1-4 0 - 99.999%
TAX 1 = VAT 1
TAX 2 = VAT 2
TAX 3 = VAT 3
TAX 4 = VAT 4

TAX 2 = VAT 2

TAX 3 = VAT 3

TAX 4 = VAT 4

Example: 10% Tax Programming.

1. Turn the key to the "PRG" (PROGRAM) position.
2. If a PRG/Z Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. ENTER (1), PRESS the [TAX 1] key, ENTER (10000), then PRESS the [TAX 2] key.

TO PROGRAM A SECOND VAT TAX RATE:

Example: 5%

1. Turn the key to the "PRG" (PROGRAM) position.
2. If a PRG/Z Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. ENTER (2), PRESS the [TAX 1] key, ENTER (5000), then PRESS the [TAX 2] key.

DEPARTMENT PROGRAMMING

A maximum of 40 Departments are available on your cash register. Each department can represent a category of merchandise. For example, Department One can represent sales of beverages, Department Two sandwiches, Department Three candy, etc. Each Department can be programmed as taxable or non-taxable.

The programming of the departments consists of six steps: Selecting the Standard or Gallonage Function, Selecting Multiple/Single Entry, Selecting the High Digit Lock Out (HDLO) Number, Tax Status Number, Assigning a Department Preset Price, plus programming a Department Description, if desired.

"PRG" +	[Standard/Gallonage Dept.]	+	(Multiple/Single Entry)	+	(HDLO #)	+	(Tax Status #)	+
	1 digit #		1 digit #		1 digit #		2 digit #	
[Subtotal/w/Tax] + (Pre-Set Price or "0") + [Department] + [Description] + [Check/Valid]								
			7 digit # (maximum)		12 characters (maximum)			

* Optional: If no preset price is designed, "0" must be entered in lieu of a price.

1. **STANDARD/GALLONAGE DEPARTMENT:** Each department can be set for either Standard Mode or Gallonage Mode. Gallonage Mode allows the entry of a price with 3 decimal places, representing the cost per gallon, i.e., 1.419 per gallon. Standard Mode enters the price using the normal 2 decimal place setting.

Number		Condition
0	=	Standard Department
1	=	Gallonage Department

2. **MULTIPLE ITEM/SINGLE ITEM:** Multiple Item Entry allows you to ring up two or more items into a department. Single Item Entry allows you to ring up only one item in a department.

Number		Condition
0	=	Multiple Item Sale
1	=	Single Item Sale

3. **THE HIGH DIGIT LOCK OUT (HDLO)** number is used to limit the number of digits that can be rung up in an entry. This function is helpful in safeguarding against large over rings. If an excess number of digits is entered, the error tone sounds and the keypad locks up. For example, to limit ring ups of more than \$99.99, set the HDLO to 4.

Number		Dollar Range
0	=	\$.01 - \$99,999.99 (Standard Setting)
1	=	.01 - .09
2	=	.01 - .99
3	=	.01 - 9.99
4	=	.01 - 99.99
5	=	.01 - 999.99
6	=	.01 - 9,999.99

(Department Programming continues on the next page)

(Continued) DEPARTMENT PROGRAMMING

4. **THE TAX STATUS** is used to link no tax, a single tax rate [Tax 1] or multiple tax rates (Tax 2, 3 or 4) to a department key.

<u>Tax Status Number</u>		<u>Condition</u>
00	=	Non-Taxable (used when you do not wish to charge tax)
01	=	Taxable by TAX 1 Rate
02	=	Taxable by TAX 2 Rate
03	=	Taxable by TAX 3 Rate
04	=	Taxable by TAX 4 Rate
05	=	Taxable by TAX 1 and TAX 2 Rates
06	=	Taxable by TAX 1 and TAX 3 Rates
07	=	Taxable by TAX 1 and TAX 4 Rates
08	=	Taxable by TAX 2 and TAX 3 Rates
09	=	Taxable by TAX 2 and TAX 4 Rates
10	=	Taxable by TAX 3 and TAX 4 Rates
11	=	Taxable by TAX 1, TAX 2 and TAX 3 Rates
12	=	Taxable by TAX 1, TAX 2 and TAX 4 Rates
13	=	Taxable by TAX 1, TAX 3 and TAX 4 Rates
14	=	Taxable by TAX 2, TAX 3 and TAX 4 Rates
15	=	Taxable by TAX 1, TAX 2, TAX 3 and TAX 4 Rates

5. **DEPARTMENT PRESET PRICE:** Note: If you do not wish to preset a price, a price of "0" must be assigned to that department key. Department Preset Price is used to program a price in a department to save time when ringing up an entry. The price will automatically ring up each time the appropriate [DEPARTMENT] key is pressed.
6. **DEPARTMENT NAME:** A name or description can be assigned to each department key. This name will display and print when ringing up sales. For example, "Clothing" will print on the receipt in place of "Dept 1"; "Shoes" in place of "Dept 2"; "Sportswear" in place of "Department 3", etc.

(Department Programming continues on the next page)

DEPARTMENT PROGRAMMING (Continued)

TO PROGRAM DEPARTMENTS AS TAXABLE

"PRG"	+ [Standard/Gallonage Dept.]	+ (Multiple/Single Entry)	+ (HDLO #)	+ (Tax Status #)	+
	1 digit #	1 digit #	1 digit #	2 digit #	
[Subtotal/w/Tax]	+ (Pre-Set Price or "0")	+ [Department]	+ [Description]	+ [Check/Valid]	
	7 digit # (maximum)		12 characters (maximum)		

* Optional: If no preset price is desired, "0" must be entered in lieu of a price.

Example: Program Department 1 to charge a single tax rate (TAX 1); HDLO of "0" and Multiple Entry and preset price of \$1.00:

1. Turn the key to the "PRG" (PROGRAM) position.
2. If a PRG/Z Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. ENTER (0)(0)(0)(0)(1), PRESS the [SUBTOTAL/W/TAX] key.
4. ENTER (100), then PRESS the [DEPARTMENT 1] key. If you do not wish to preset a price, you must enter "0", then press [DEPARTMENT 1]. You only need to continue with Steps 5 and 6 if you wish to program a department description. If not, you can stop after completing Step 4 by pressing the [AMT TEND/TOTAL] key.
5. To program a description, begin inputting characters using the alpha keyboard (Department keys) or the Alphanumeric Code Chart if needed (see Page 41). If a wrong character is entered, use the [VOID] key to "backspace" and delete that character and then continue. Remember, the Department Shift key accesses the letters in the lower green section of the Department keys.
6. PRESS the [CHECK/VALID] key to finalize.

TO PROGRAM DEPARTMENTS AS NON-TAXABLE

Although the factory default setting of all departments is non-taxable, you may need to program certain department keys for the non-tax setting.

"PRG"	+ [Standard/Gallonage Dept.]	+ (Multiple/Single Entry)	+ (HDLO #)	+ (Tax Status #)	+
	1 digit #	1 digit #	1 digit #	2 digit #	
[Subtotal/w/Tax]	+ (Pre-Set Price or "0")	+ [Department]	+ [Description]	+ [Check/Valid]	
	7 digit # (maximum)		12 characters (maximum)		

* Optional: If no preset price is desired, "0" must be entered in lieu of a price.

Example: Program Department 2 as non-taxable, HDLO of "0", and Multiple Entry and preset price of \$1.00:

1. Turn the key to the "PRG" (PROGRAM) position.
2. If a PRG/Z Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. ENTER (0)(0)(0)(0)(0), PRESS the [SUBTOTAL/W/TAX] key.
4. ENTER (100), then PRESS the [DEPARTMENT 2] key. If you do not wish to preset a price, you must enter "0", then press [DEPARTMENT 2]. You only need to continue with Steps 5 and 6 if you wish to program a department description. If not, you can stop after completing Step 4 by pressing the [AMT TEND/TOTAL] key.
5. To program a description, begin inputting characters using the alpha keyboard (Department Keys) or the Alphanumeric Code Chart if needed (see Page 41). If a wrong character is entered, use the [VOID] key to delete that character and then continue. Remember, the Department Shift key accesses the letters in the lower green section of the Department keys.
- 27 6. PRESS the [CHECK/VALID] key to finalize.

ADDITIONAL CREDIT KEYS

Two departments (19 and 20) can be dedicated to be used for tracking multiple credit card sales. Flag Option #16 (Page 37) must be set to Option Number 1, 2, or 3 in order to use this feature. Please Note: When changing Departments 19 and 20 to be dedicated credit card keys, they no longer function as department keys until Flag #16 is reset back to option "0".

TO PROGRAM A CREDIT KEY

STEP 1:

1. Turn the key to the "PRG" (PROGRAM) position.
2. If a PRG/Z Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. ENTER (1)(6)(1), then PRESS the [VOID] key to make Department 20 CREDIT 1 or ENTER (1)(6)(2), then PRESS the [VOID] key to make Department 19 CREDIT 2 or ENTER (1)(6)(3), then PRESS the [VOID] key to make Department 20 CREDIT 1 and Department 19 CREDIT 2.

Note: The default description will display and print as CREDIT 1 and CREDIT 2. If you would like to assign a different name to each credit key (i.e., MASTERCARD, VISA, AMEX, etc.) proceed with Step 2.

STEP 2:

1. ENTER (5)(1) for Department 20 or (5)(2) for Department 19, then PRESS [RETURN].
2. Input the (Name of the Credit Card - 12 characters maximum) using the alpha characters on the department keys, then PRESS [CHECK/VALID].

"PRG" + (CREDIT KEY #) + [RETURN] + (CREDIT CARD NAME) + [CHECK/VALID] 51 or 52 (Use Alpha Keys - 12 characters, max.)

Example: Program Department 20 for a VISA card:

"PRG" + (5)(1) + [RETURN] + (V)(I)(S)(A) + [CHECK/VALID] (Use Alpha Keys)
--

The "Z" report will display the accumulated credit card totals.

EXAMPLE OF RECEIPT: Using the credit key now programmed with the description "VISA":

Press [DEPT 1]	09-29-99	MC #:0000
Press [DEPT 1]	DEPT 1	*1.00T1
	DEPT 1	*1.00T1
		*0.12T1

	TOTAL	*2.12
Press [DEPT 20]	VISA	*2.12
	AM11-57 0010	

COUPON DISCOUNT (CPN)

The Coupon Discount (CPN) key is used to subtract a specific amount from an individual item. This function can be performed in the middle of a transaction or by itself in a transaction.

The programming of the Coupon Discount [CPN] key consists of two steps; selecting a High Digit Lock Out (HDLO) number and Tax Status.

"PRG" + (HDLO #) + [TAX STATUS #] + [CPN]		
	1 digit #	2 digit #

1. **The HIGH DIGIT LOCK OUT (HDLO)** number is used to limit the number of digits that can be rung up in a coupon discount. This function is helpful in safeguarding against accidentally subtracting a large amount. If an excess number of digits is entered, an error tone sounds and the keypad locks up. For example: To limit ringing up of more than \$99.99 on the Coupon Discount key, set the HDLO to 4.

Number		Dollar Range
0	=	\$.01 - \$99,999.99 (Standard Setting)
1	=	.01 - .09
2	=	.01 - .99
3	=	.01 - 9.99
4	=	.01 - 99.99
5	=	.01 - 999.99
6	=	.01 - 9,999.99

2. **The TAX STATUS** is primarily used to determine where you want the tax rate to be charged when using the Coupon Discount key. The options are:
 - a. To charge tax on the original amount of an item (the amount before the coupon is deducted).
 - b. To charge tax on the discounted amount of an item (the amount after the coupon discount is deducted).

The following Tax Status numbers are used to link the Tax Status to the Coupon Discount [CPN] key. Note: If you have no tax rate programmed in the cash register, simply choose "00" on the Tax Status Number listed below:

Tax Status Number	Conditions
00 = Non-Taxable	a. Used if no tax is programmed in the cash register; or b. Used if you want to charge tax on the original amount of an item (the amount before the coupon is deducted).
01 = Taxable by TAX 1	Used to charge the TAX 1 rate on the discounted amount of an item (the amount after the coupon is deducted).
02 = Taxable by TAX 2	Used to charge the TAX 2 rate on the discounted amount of an item (the amount after the coupon is deducted).
03 = Taxable by TAX 3	Used to charge TAX 3 rate on the discounted amount of an item (the amount after the coupon is deducted).

(The Coupon Discount programming continues on the next page)

(Continued) COUPON DISCOUNT (CPN)

TAX STATUS (Continued)

<u>Tax Status Number</u>	<u>Conditions</u>
04 = Taxable by TAX 4	Used to charge TAX 4 rate on the discounted amount of an item (the amount after the coupon is deducted).
05 = Taxable by TAX 1 and TAX 2	Used to charge TAX 1 and TAX 2 rates on the discounted amount of an item (the amount after the coupon is deducted).
06 = Taxable by TAX 1 and TAX 3 of an item (the amount after the coupon is deducted).	Used to charge TAX 1 and TAX 3 rates on the discounted amount of an item (the amount after the coupon is deducted).
07 = Taxable by TAX 1 and TAX 4	Used to charge TAX 1 and TAX 4 rates on the discounted amount of an item (the amount after the coupon is deducted).
08 = Taxable by TAX 2 and TAX 3	Used to charge TAX 2 and TAX 3 rates on the discounted amount of an item (the amount after the coupon is deducted).
09 = Taxable by TAX 2 and TAX 4	Used to charge TAX 2 and TAX 4 rates on the discounted amount of an item (the amount after the coupon is deducted).
10 = Taxable by TAX 3 and TAX 4	Used to charge TAX 3 and TAX 4 rates on the discounted amount of an item (the amount after the coupon is deducted).
11 = Taxable by TAX 1, TAX 2 and TAX 3	Used to charge TAX 1, TAX 2 and TAX 3 rates on the discounted amount of an item (the amount after the coupon is deducted).
12 = Taxable by TAX 1, TAX 2 and TAX 4	Used to charge TAX 1, TAX 2 and TAX 4 rates on the discounted amount of an item (the amount after the coupon is deducted).
13 = Taxable by TAX 1, TAX 3 and TAX 4	Used to charge TAX 1, TAX 3 and TAX 4 rates on the discounted amount of an item (the amount after the coupon is deducted).
14 = Taxable by TAX 2, TAX 3 and TAX 4	Used to charge TAX 2, TAX 3 and TAX 4 rates on the discounted amount of an item (the amount after the coupon is deducted).
15 = Taxable by TAX 1, TAX 2, TAX 3 and TAX 4	Used to charge TAX 1, TAX 2, TAX 3 and TAX 4 rates on the discounted amount of an item (amount after coupon is deducted).

(The Coupon Discount programming continues on the next page)

COUPON DISCOUNT (CPN) (Continued)

TO PROGRAM THE COUPON [CPN] KEY

"PRG" + (HDLO #) + [TAX STATUS #] + [CPN]			
	1 digit #	2 digit #	

The following two examples list the most commonly used options in programming the Coupon Discount [CPN] key.

VERSION 1: Select if no tax is programmed in the cash register or if you want to charge the tax rate on the original amount of an item (the amount before the coupon is deducted).

Example: If HDLO is selected for "0", and the Tax Status Number is selected for "0" (non-taxable):

1. Turn the key to the "PRG" (PROGRAM) position.
2. If a PRG/Z Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. ENTER (0)(00), then PRESS the [CPN] key.

Note: See Transaction Example 19 on Page 54 to ring up a coupon sale programmed with Version 1.

VERSION 2: Select if you want the tax rate to be charged on the discounted amount of an item (the amount after the coupon is deducted).

Example: If HDLO is selected for "0", and the Tax Status is selected for "1" (taxable by TAX 1):

1. Turn the key to the "PRG" (PROGRAM) position.
2. If a PRG/Z Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. ENTER (0)(01), then PRESS the [CPN] key.

Note: See Transaction Example 19 on Page 54 to ring up a coupon sale programmed with Version 2.

Confirmation Report: To check your results, a Program Confirmation Report is available. For details see Page 45.

MINUS PERCENTAGE DISCOUNT

Minus Percentage Discount [-%/RA] is used to subtract a percentage rate such as an employee discount from an individual item. The rate can be pre-programmed or manually entered.

Extra Option: If desired, a procedure is offered so that the Minus Percentage Discount amount is not subtracted from the department totals on the Management Reports, for details see Flag 23, Option 1, Page 37.

The programming of the Minus Percentage Discount key consists of pre-setting the Minus Percentage Discount rate (if desired).

TO PROGRAM A MINUS PERCENTAGE DISCOUNT [-%/RA]

"PRG" + (MINUS PERCENTAGE DISCOUNT RATE #) + (0) + [-%/RA] 4 digit #

Example: Program the Percentage Discount rate of 10%.

1. Turn the key to the "PRG" (PROGRAM) position.
2. If a PRG/Z Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. ENTER (1000), PRESS (0), then PRESS the [-%/RA] key.

Note: See Transaction Example 20 on Page 55 to ring up a Minus Percentage Discount sale.

Confirmation Report: To check your results, a Program Confirmation Report is available. For details see Page 45.

PLUS PERCENTAGE/ADD ON

Plus Percentage [+%/PO] is used to add a percentage rate such as a service charge or gratuity to an individual item. The rate can be pre-programmed or manually entered. When using the Plus Percentage/Add-On key, the words "add-on" appear on the display and print on the tape.

Extra Option: If desired, a procedure is offered so that the Plus Percentage amount is not added to the department totals on the Management Reports, for details see Flag 23, Option 1, Page 37.

The programming of the Plus Percentage [+%/PO] key consists of presetting the Plus Percentage Rate.

TO PROGRAM A PLUS PERCENTAGE RATE (+%/PO)

"PRG" + (PLUS PERCENTAGE RATE #) + (0) + [+%/PO] 4 digit #

Example: Program the Plus Percentage rate of 10%.

1. Turn the key to the "PRG" (PROGRAM) position.
2. If a PRG/Z Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. ENTER (1000), PRESS (0), then PRESS the [+%/PO] key.

Note: See Transaction Example 21 on Page 56 to ring up a Plus Percentage sale.

Confirmation Report: To check your results, a Program Confirmation Report is available. For details see Page 45.

PRICE LOOK-UP (PLU)

A total of 999 Price Look Up codes (PLUs) are available on this cash register. Each PLU can be programmed with a 12 character description that will both appear on the display and print on the tape. The Price-Look Up system allows for fast, accurate entry of an item and automatically records the number of items sold.

The first step in programming PLUs is to assign a PLU number between 1 and 999 to each sales item. Second, the PLU Number must then be linked to a Department key which has the appropriate Tax Status needed for that PLU. For example, if PLU #1 is required to charge tax, then link it to a Department key which is set up for tax. Whereas, if PLU #2 is not required to charge tax, then link it to a Department key which is programmed for no tax. Lastly, a description can be programmed to identity each PLU.

TO PROGRAM PLUs

"PRG" + [QTY/DATE] + (PLU #) + [PLU] + (PRICE) + [DEPARTMENT] + (DESCRIPTION) + [CHECK/VALID] + [QTY/DATE]			
1-999	7 digits	1-40	12 Characters
	(Maximum)		(Maximum)

* NOTE: If you are programming PLUs using consecutive numbers (starting at 1, 2, 3, etc.), it is not necessary to enter the PLU number each time - simply enter the price and the department you are linking the PLU to. The register display automatically prompts you with the next PLU number.

Example: Set PLU #1 with a \$2.99 price, linked to Department 1; description of apple

1. Turn the key to the **"PRG" (PROGRAM)** position.
2. If a PRG/Z Manager Password has been programmed, **ENTER** the **(PASSWORD #)**, then **PRESS** the **[CHECK/VALID]** key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. **PRESS** the **[QTY/DATE]** key to begin programming the PLUs. (PLU price appears on display)
4. **ENTER** (1), then **PRESS** the **[PLU]** key.
5. **ENTER** (299), then **PRESS** the **[DEPARTMENT 1]** key. (PLU name appears on display) Important: It is not necessary to press the decimal point when entering a price.
6. Input the characters **(A)(P)(P)(L)(E)** using the alpha keyboard [Department keys] or the Alphanumeric Code Chart, if needed (see Page 41). Remember the Department Shift key accesses the letters in the lower green section on the Department keys.
7. **PRESS** the **[CHECK/VALID]** key.
8. Repeat Steps 4, 5 and 6 to program other PLUs.
9. **PRESS** the **[QTY/DATE]** key to end programming of PLUs.

Note: If you wish to eliminate a PLU number that is programmed, follow Steps 1, 2 and 3 above if necessary, **PRESS** the **(PLU NUMBER)**, **PRESS** the **[PLU]** key, **PRESS** the **[DEPARTMENT]** key and finalize by **PRESSING** the **[QTY/DATE]** key (skipping the price deletes the PLU #).

Confirmation Report: To check your results, a PLU Confirmation Report is available. For details see Page 45.

TRAINING MODE

The optional Training Mode is designed to help you become better acquainted with the register mode and offers an ideal place for "beginners" and new employees to practice transaction examples. Once the Training Mode is activated, there is no access to any operations in the "PRG", "X", or "Z" modes. Also note, the transaction numbers do not count up in the Register Mode until you exit the Training Mode. The Training Mode can be activated at any time since it does not record any activity in the machine totals.

TO TURN ON THE TRAINING MODE

"PRG" + (666666) + [AMT TEND/TOTAL]

1. Turn the key to the "PRG" (PROGRAM) position.
2. If a PRG/Z manager password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program a PRG/Z manager password, go to Step 3.
3. ENTER (666666), then PRESS the [AMT TEND/TOTAL] key.
4. Turn the key to the "REG" (REGISTER) position to resume normal register operations.

NOTE: The Training Mode indicator light (a small decimal point) will be displayed in the first digit of the display.

TO SHUT OFF THE TRAINING MODE

"PRG" + (555555) + [AMT TEND/TOTAL]

1. Turn the key to the "PRG" (PROGRAM) position.
2. If a PRG/Z manager password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program a PRG/Z manager password, go to Step 3.
3. ENTER (555555), then PRESS the [AMT TEND/TOTAL] key.
4. Turn the key to the position desired.

FLAG OPTIONS

A total of 34 System Programming Options (known as FLAGS) are offered on this cash register. They are preset by the factory to accommodate the most commonly used selections. Each Flag Option can be changed or updated at any time as needed. Note: All Flags have been factory preset at "0", except for Flags 15 and 18 which have a default setting of "1". They only need to be programmed if you wish to change any option from "0" to "1".

The options are as follows: "0" = Represents the option preset by the factory.
 "1" = Represents an alternative option.

FLAG NUMBER	OPTION NUMBER
1	0 = The Grand Total does not reset after a "Z" Reading. 1 = The Grand Total resets after a "Z" Reading.
2	0 = Subtotal will print on sales receipts when [#/ST/NS] key is depressed. 1 = Subtotal will not print on sales receipts when [#/ST/NS] key is depressed.
3	0 = Tendering of change is not required. 1 = Tendering of change is required.
4	0 = The Date will print as Month-Day-Year. 1 = The Date will print as Day-Month-Year.
5	0 = "Z1" and "Z2" Counter Numbers will not reset after a "Z1" or "Z2" Reading. 1 = "Z1" and "Z2" Counter Numbers will reset after a "Z1" or "Z2" Reading.
6	0 = Tax Rate Amount will print on sales receipts. 1 = Tax Rate Amount will not print on sales receipts.
7	0 = Skips amounts equaling zero on financial reports. 1 = Does not skip amounts equaling zero on financial reports.
8	0 = The Date will print on sales receipts and management reports. 1 = The Date will not print on sales receipts and management reports.
9	0 = The Time will print on sales receipts and management reports. 1 = The Time will not print on sales receipts and management reports.
10	0 = The Transaction Number will reset after a "Z1" Reading. 1 = The Transaction Number will not reset after a "Z1" Reading.
11	0 = The Clerk Name will print on sales receipts. 1 = The Clerk Name will not print on sales receipts.
12	0 = Clerk System inactive. 1 = Clerk System active.
13	0 = USA Tax System. 1 = Canadian Tax System. 2 = VAT Tax System.
14	0 = "Z1/Z2" Counter will print. 1 = "Z1/Z2" Counter will not print.
15	0 = Tax amount will print after the sales total on the sales receipt. 1 = Tax amount will print before the subtotal amount on the sales receipt.

(Flag Options are continued on the next page)

FLAG OPTIONS (Continued)

FLAG NUMBER	OPTION NUMBER		
16	0 = Standard Department key Layout. 1 = Department 20 will be the Credit 1 key. 2 = Department 19 will be the Credit 2 key. 3 = Department 20 will be the Credit 1 and Department 19 as Credit 2.		
17	0 = Setting non-taxable limit without GST tax for Canadian Tax Mode. 1 = Setting non-taxable limit with GST tax for Canadian Tax Mode.		
18	0 = Time will display and print in 24 hour mode. 1 = Time will display and print in 12 hour (am/pm) mode.		
19	0 = Language selection - English 1 = Language selection - Spanish 2 = Language selection - French 3 = Language selection - German		
20	0 = A Clerk Number is not required before each transaction. 1 = A Clerk Number is required before each transaction.		
21	0 = Do not select the Canadian Tax System of tax on tax. 1 = Select the Canadian Tax System of tax on tax.		
22 (Pertains only to the Canadian Tax System)	Do not include GST in PST1	Do not include GST in PST2	Do not include GST in PST3
0 =	x	x	x
1 =	o	x	x
2 =	x	o	x
3 =	o	o	x
4 =	x	x	o
5 =	o	x	o
6 =	x	o	o
7 =	o	o	o
x = No (include) o = Yes (do not include)			
Note: This flag setting is effective only when Flag 21 is set for Option 1.			
23	0 = -% is subtracted and +% is added to department totals on "X/Z" Readings. 1 = -% is not subtracted and +% is not added to department totals on "X/Z" Readings.		
24	0 = TAX amounts will print separately on sales receipts. 1 = TAX amounts will print as one figure on sales receipts. (The letters "TX" will print to denote the total of tax).		
25	0 = Duplicate "Z" Report will print. 1 = Duplicate "Z" Report will not print.		
26	0 = Consecutive # will reset after "Z1" Report. 1 = Consecutive # will not reset after "Z1" Report.		

(Flag Options are continued on the next page)

(Continued) **FLAG OPTIONS**

FLAG NUMBER	OPTION NUMBER
27	0 = "0" price registration will be allowed. 1 = "0" price registration will not be allowed.
28 (For Europe Only)	0 = Euro convert function will be allowed. 1 = Euro convert function will not be allowed.
29	0 = Tax rate will not print on financial report in VAT mode. 1 = Tax rate will print on financial report in VAT mode.
30 (For Europe Only)	0 = Print converted total at convert tender. 1 = Print converted total always tender.
31 (For Europe Only)	0 = Local base currency. 1 = Euro base currency.
32	0 = Double receipt will be issued. 1 = Double receipt will not be issued.
33 (see below for examples)	0 = Validation print format #1. 1 = Validation print format #2. 2 = Validation print format #3. 3 = Validation non-print.
34	0 = Re-printing as many as desired for validation printing. 1-9 = The available number of times of validation print.

Note: Flags 28, 30 and 31 do not apply to the U.S. market.

VALIDATION

"PRG" + (33) + (0-1-2-3) + [VOID]
Option #

TO SET FLAG 33, OPTION 0:

"PRG" + (33) + (0) + [VOID]

Print Format 1:

16-03-94	12:14	0055	CASH	*1.00
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DATE TIME RECEIPT # CASH DESCRIPTOR CASH AMOUNT

TO SET FLAG 33, OPTION 1:

"PRG" + (33) + (1) + [VOID]

Print Format 2:

16-03-94	1234	0055	CHECK	*1.00
----------	------	------	-------	-------

DATE MACHINE # RECEIPT # CHECK DESCRIPTOR CHECK AMOUNT

TO SET FLAG 33, OPTION 2:

"PRG" + (33) + (2) + [VOID]

Print Format 3:

16-03-94	01	0055	CHARGE	*1.00
----------	----	------	--------	-------

DATE TIME RECEIPT # CHARGE DESCRIPTOR CHARGE AMOUNT

TO PROGRAM FLAG OPTIONS

"PRG" + (FLAG #) + (OPTION #) + [VOID] 1 digit #

Example: Select Option 1 for Flag 3 (Tendering of change is required):

1. Turn the key to the **"PRG" (PROGRAM)** position.
2. If a PRG/Z Manager Password has been programmed, **ENTER** the (**PASSWORD #**), then **PRESS** the **[CHECK/VALID]** key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. **ENTER (3)(1)**, then **PRESS** the **[VOID]** key. Flag #3 has now been set with Option 1.

Note: After the Full System Clear, all options revert to the default setting of "0" (except Flag 15 and 18 revert to default setting of "1").

Confirmation Report: The programming of Flag Options is done in a non-print mode. To check your results, a Program Confirmation Report is available. For details see Page 45.

PROGRAMMING ALPHANUMERIC DESCRIPTIONS

General Information: When programming the alpha descriptions for Departments, PLUs, Clerks and the Store Name/Logo Message, it is recommended to use the Alpha Keyboard (shown below). The department keys are clearly labeled with all the letters needed to program these descriptions. So, when you are programming alpha descriptions, simply use the department keys to spell out the words you require. Please note that the letters in the lower green section of the keys are accessed by first pressing the [DEPT SHIFT] key. You may require certain symbols or lower case characters that are not found on the Alpha Keyboard. For example, if you require a space between words, or if you require the "/" symbol, or "-", you will need to refer to the Alphanumeric Code Chart shown on the next page.

PLEASE NOTE: Only capital letters of the alphabet are on the Alpha Keyboard.

ALPHA KEYBOARD

5 E	10 J	15 O	20 T
25 Y	30	35	40
4 D	9 I	14 N	19 S
24 X	29	34	39
3 C	8 H	13 M	18 R
23 W	28	33	38
2 B	7 G	12 L	17 Q
22 V	27	32	37
1 A	6 F	11 K	16 P
21 U	26 Z	31	36

(Programming Alphanumeric Descriptions are continued on the next page)

PROGRAMMING ALPHANUMERIC DESCRIPTIONS (Continued)

ALPHANUMERIC CODE CHART

Character	Code Number	Character	Code Number
Space	00	@	40
Wide Character	01	/	67
a	02	:	68
b	03	#	69
c	04	&	70
d	05	%	71
e	06	\$	72
f	07	, (comma)	73
g	08	(	74
h	09	)	75
i	10	*	76
j	11	+	77
k	12	-	78
l	13	.	79
m	14	; (semi-colon)	87
n	15	>	88
o	16	' (apostrophe)	89
p	17	"	90
q	18	<	91
r	19	=	92
s	20		
t	21	Special Language	
u	22	<u>Characters</u>	
v	23		
w	24	ı	80
x	25	ı	81
y	26	á	82
z	27	é	83
?	28	ı	84
!	29	ó	85
0	30	ú	86
1	31	Ä	93
2	32	Ü	94
3	33	Ö	95
4	34	İ	96
5	35	ü	97
6	36	Ñ	98
7	37	ñ	99
8	38		
9	39		

Locate the character or symbol that you need, and note the 2 digit code number. For example, if you require a space, the code number for a space is "00", the number 1 is the code 31 and the ":" (colon) is code 68.

(Programming Alphanumeric Descriptions are continued on the next page)

(Continued) PROGRAMMING ALPHANUMERIC DESCRIPTIONS

The following outlines the maximum number of characters that can be programmed for each item description.

DEPARTMENT	-	12 Characters *
PLU	-	12 Characters *
CLERK NAME	-	18 Characters *
STORE LOGO/HEADER	-	5 Lines (18 Characters* each)
* Standard size characters. For Double Width, see below.		

Please Note: The instructions for programming Department Descriptions is on Pages 25-28.
The instructions for programming PLU Descriptions is on Page 34.
The instructions for programming Clerk Descriptions is on Page 17.

WIDE CHARACTERS

For extra emphasis, you can program extra wide (double width) for each character.

If using double width characters, the maximum number of characters is reduced by half. For example, Departments would normally use 12 characters, for double width, the maximum is 6 characters; PLUs would normally use 12 characters, for double width, the maximum is 6 characters.

To make a character print extra wide, the double width code of "01" must be used before each character.

Normal Size

```
11-10-98 MC #:0000
APPLE      $1.00
BANANA     $1.00
PEAR       $1.00
-----
TOTAL     $3.00
CASH      $3.00
          AM10-49 0013
```

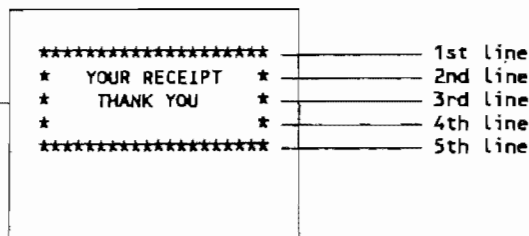
Double Width

```
11-10-98 MC #:0000
APPLE $1.00
BANANA
          $1.00
PEAR:   $1.00
-----
TOTAL  $3.00
CASH   $3.00
          AM10-51 0015
```

PROGRAM STORE LOGO/COMMERICAL MESSAGE

A 5 line store header can be programmed to print on customer receipts. The header can be a maximum of 5 lines, each line 18 characters (normal size) or 9 characters (double width).

"Your Receipt Thank You"
is the default printout
for the header



Make a copy of the attached blank Store Logo Worksheet for future changes or revisions to your logo.

PROGRAMMING ALPHANUMERIC DESCRIPTIONS (Continued)

Please follow these simple steps to program your logo:

Step 1: First, write out your store name and logo message you wish to program. For example, to program the following store logo message:

COFFEE WORLD
999-555-1111
222 EAST MAIN ST
OPEN 7AM TO 6PM
WORLD OF COFFEES

STORE/LOGO WORKSHEET

1st Line																			
2nd Line																			
3rd Line																			
4th Line																			
5th Line																			

Step 2: After writing out your message, next count the number of characters on each line.

Number of Characters
Per Line
(including spaces)

COFFEE WORLD	12
999-555-1111	12
222 EAST MAIN ST	16
OPEN 7AM TO 6PM	15
WORLD OF COFFEES	16

Step 3: Next, fill in the chart, filling in extra unused characters with blank spaces. Note that blank spaces were added at the beginning and end of each line in order to **CENTER** the logo.

1st Line	00	00	00	C	O	F	F	E	E	00	W	O	R	L	D	00	00	00
2nd Line	00	00	00	39	39	39	78	35	35	35	78	31	31	31	31	00	00	00
3rd Line	00	32	32	32	00	E	A	S	T	00	M	A	I	N	00	S	T	00
4th Line	00	0	P	E	N	00	37	A	M	00	T	O	00	36	P	M	00	00
5th Line	00	W	O	R	L	D	00	O	F	00	C	O	F	F	E	E	S	00

Note: Re: Programming Numbers in Logo Message:

If you require the printing of numbers, for example, for a telephone number or part of the street address, the numbers must be entered using the Alphanumeric Code Chart on Page 41. For example, for the telephone number "999-555-1111" in the above example, the number 9 was programmed using the character code "39"; the number 5 was programmed using the code "35", etc.

(Continued) PROGRAMMING ALPHANUMERIC DESCRIPTIONS

PRINTED RESULT: Example of programmed Store Logo:

```
COFFEE WORLD
999-555-1111
222 EAST MAIN ST
OPEN 7AM TO 6PM
WORLD OF COFFEES
11-10-98 MC #:0000
APPLE *1.00
-----
TOTAL *1.00
CASH      *1.00
          AM10-56 0017
```

Step 4: Program your logo.

1. Turn the key to the "PRG" (PROGRAM) position.
2. If a PRG/Z Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. 1st Line: ENTER (31), PRESS the [RETURN] key (Logo line 1 appears on the display), enter the 1st line of the logo (up to 18 characters) and then PRESS the [CHECK/VALID] key.

2nd Line: ENTER (32), PRESS the [RETURN] key (Logo line 2 appears on the display), enter the 2nd line of the logo (up to 18 characters) and then PRESS the [CHECK/VALID] key.

3rd Line: ENTER (33), PRESS the [RETURN] key (Logo line 3 appears on the display), enter the 3rd line of the logo (up to 18 characters) and then PRESS the [CHECK/VALID] key.

4th Line: ENTER (34), PRESS the [RETURN] key (Logo line 4 appears on the display), enter the 4th line of the logo (up to 18 characters) and then PRESS the [CHECK/VALID] key.

5th Line: ENTER (35), PRESS the [RETURN] key (Logo line 5 appears on the display), enter the 5th line of the logo (up to 18 characters) and then PRESS the [CHECK/VALID] key.

PLU CONFIRMATION REPORT/DEPARTMENT CONFIRMATION REPORT

The PLU Confirmation Report allows you to check all PLUs programmed.

TO TAKE A PLU CONFIRMATION REPORT

"PRG" + [PLU]

1. Turn the key to the "PRG" (PROGRAM) position.
2. If a PRG/Z Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. PRESS the [PLU] key.

The following illustrates the PLU Confirmation Report. The figures shown in this example are randomly chosen:

PLU #1 is linked to Dept. 1	PLU NO.	001	PLU #1
Description of "Apple" programmed to	DEPT 1	1.99T1	PLU price of \$1.99 programmed as
PLU #1	APPLE		taxable (Tax 1 Rate)
PLU #2 is linked to Dept. 4	PLU NO.	002	PLU #2
Description of "Banana" programmed to	DEPT 4	0.69	PLU price of 69¢ programmed as
PLU #2	BANANA		non-taxable
PLU #3 is linked to Dept. 3	PLU NO.	003	PLU #3
Description of "Sandwich" programmed to	DEPT 3	6.99TX	PLU price of \$6.99 programmed with more
PLU #3	SANDWICH		than one tax rate

PLU RANGE CONFIRMATION REPORT

"PRG" + (START PLU #) + (END PLU #) + PLU
001-999 001-999
(must be 3 digits) (must be 3 digits)

This report prints a selected range of PLUs. For example, to print a program report for PLU's 10 through 150:

1. Turn the key to the "PRG" (PROGRAM) position.
2. If a PRG/Z Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. Enter the starting number - must be 3 digits, 010.
4. Enter the ending number, 150.
5. PRESS PLU.

DEPARTMENT CONFIRMATION REPORT

This report prints a selected range of departments.

"PRG" + (88) + (Start Department #) + (End Department #) + [AMT TEND/TOTAL]
2 digit # 2 digit #

TRANSACTION EXAMPLES FOR OPERATING THE CASH REGISTER

The examples in this section show how to ring up different types of transactions. A maximum of 7 digits may be used to enter a price.

NOTE: Turn the key to the "REG" (REGISTER) position for registering sales transactions.
IMPORTANT: It is not necessary to press the Decimal Point when ringing up a price.
REMINDER: If Clerk Numbers are programmed, be sure to ENTER the (CLERK #), then PRESS the [CLERK] key before ringing up a sale.

SAMPLE RECEIPT

The sample receipt below illustrates general transaction information you will see printed on a receipt:

	* YOUR RECEIPT *		STORE LOGO OR MESSAGE
	* THANK YOU *		

DATE	01-24-99	MC #:1234	MACHINE NUMBER
	DEPT 1	*1.00T1	TAX 1 RATE applied to sale
	DEPT 2	*2.00T2	TAX 2 RATE applied to sale
	DEPT 3	*3.00T3	TAX 3 RATE applied to sale
	DEPT 4	*4.00T4	TAX 4 RATE applied to sale
		*0.05T1	TAX 1 AMOUNT
		*0.12T2	TAX 2 AMOUNT
		*0.24T3	TAX 3 AMOUNT
		*0.63T4	TAX 4 AMOUNT

	TOTAL	*11.04	
CASH AMOUNT TENDERED	AMOUNT	*25.00	
	CHANGE	*13.96	
TIME	PM 4-29	0043	TRANSACTION NUMBER

TRANSACTION SYMBOLS: The following symbols will appear on transaction receipts:

Clerk #1 to

Clerk #26 - 1 Through 26 Clerks

CASH - Cash Transaction Total

CHECK - Check Transaction Total

CHARGE - Charge Transaction Total

SUBTTL - Subtotal (Excludes Tax)

TOTAL - Total of Sale

CHANGE - Change

X - Number of Items Being Multiplied

@ - Amount Being Multiplied

T1 - Tax 1 Rate Applied to a Sale

T2 - Tax 2 Rate Applied to a Sale

T3 - Tax 3 Rate Applied to a Sale

T4 - Tax 4 Rate Applied to a Sale

TX - Represents Tax Total (if Option 1 is selected on Flag 24, Page 37).

AMOUNT - Amount of Cash Tendered

PRICE - Overriding of a PLU Price

DISCOUNT - Minus Percent Discount

ADD ON - Plus Percent

NO SALE - No-Sale Function or Open Cash Drawer

- Reference Number

COUPON - Coupon

VOID/CORR - Void

REFUND - Return (Refund)

RECD ACCT - Received on Account

PAID OUT - Paid Out

TRANSACTION EXAMPLES FOR OPERATING THE CASH REGISTER

NOTE: Turn the key to the "REG" (REGISTER) position for registering sales transactions.
IMPORTANT: It is not necessary to press the Decimal Point when ringing up a price.
REMINDER: If Clerk Numbers are programmed, be sure to ENTER the (CLERK #), then PRESS the [CLERK] key before ringing up a sale.

In the examples below, Department 1 is programmed as taxable with a 6% (TAX 1) rate and Clerk #1 is used.

EXAMPLE 1: CASH SALE WITHOUT TENDERING CHANGE - (Ring up a \$1.00 item in Department 1):

1. ENTER (100), then PRESS the [DEPARTMENT 1] key.
2. PRESS the [# / ST / NS] key. The Subtotal key does not need to be depressed if you do not want the subtotal of a sale to print.
3. PRESS the [SUBTOTAL / W / TAX] key.
4. PRESS the [AMT TEND / TOTAL] key.

01-28-99 MC #:1234	
DEPT 1	*1.00T1
SUBTTL	*1.00
	*0.06T1
TOTAL	*1.06
CASH	*1.06

AM10-59 0007

EXAMPLE 2: CASH SALE WITH TENDERING CHANGE - (Ring up a \$1.00 item in Department 1 and compute change from \$5.00 cash tendered):

1. ENTER (100), then PRESS the [DEPARTMENT 1] key.
2. PRESS the [SUBTOTAL] key. The Subtotal key does not need to be depressed if you do not want the subtotal of a sale to print.
3. PRESS the [SUBTOTAL / W / TAX] key.
4. ENTER (500), then PRESS the [AMT TEND / TOTAL] key.

01-28-99 MC #:1234	
DEPT 1	*1.00T1
SUBTTL	*1.00
	*0.06T1
TOTAL	*1.06
AMOUNT	*5.00
CHANGE	*3.94

AM10-59 0008

EXAMPLE 3: USING THE DEPT SHIFT KEY AND TENDERING CHANGE - (Ring up a \$1.00 item in Department 1, \$2.00 in Department 21 and \$3.00 in Department 1 and compute change from \$10.00 cash tendered):

1. ENTER (100), and then PRESS the [DEPARTMENT 1] key.
2. ENTER (200), PRESS the [DEPT SHIFT] key, then PRESS the [DEPARTMENT 21] key.
3. ENTER (300), then PRESS the [DEPARTMENT 1] key.
4. PRESS the [SUBTOTAL / W / TAX] key.
5. ENTER (1000), then PRESS the [AMT TEND / TOTAL] key.

01-28-99 MC #:1234	
DEPT 1	*1.00T1
DEPT 21	*2.00
DEPT 1	*3.00T1
	*0.24T1
TOTAL	*6.24
AMOUNT	*10.00
CHANGE	*3.76

Note: The register returns to the Non-Shift Mode after each department entry.

AM10-59 0009

TRANSACTION EXAMPLES FOR OPERATING THE CASH REGISTER

NOTE: Turn the key to the 'REG' (REGISTER) position for registering sales transactions.

IMPORTANT: It is not necessary to press the Decimal Point when ringing up a price.

REMINDER: If Clerk Numbers are programmed, be sure to ENTER the (CLERK #), then PRESS the [CLERK] key before ringing up a sale.

In the examples below, Department 1 is programmed as taxable with a 6% (TAX 1) rate and Clerk #1 is used.

EXAMPLE 4: CHARGE SALE - (Ring up a \$1.00 item in Department 1 and finalize the sale with the CHG key):

1. ENTER (100), then PRESS the [DEPARTMENT 1] key.
2. PRESS the [CHARGE] key. It is not necessary to enter any amounts before pressing the Charge key.

01-28-99	MC #1234
DEPT 1	*1.00T1
	*0.06T1
TOTAL	*1.06
CHARGE	*1.06

AM10-59 0011

EXAMPLE 5: CHECK SALE - (Ring up a \$1.00 item in Department 1 and finalize the sale with the Check key):

1. ENTER (100), then PRESS the [DEPARTMENT 1] key.
2. PRESS the [CHECK/VALID] key. When needing to tender change with the Check key, enter the amount of the check before pressing the Check key.

01-28-99	MC #1234
DEPT 1	*1.00T1
	*0.06T1
TOTAL	*1.06
CHECK	*1.06

AM10-59 0014

EXAMPLE 6: SPLIT TENDERING SALE - (Ring up a \$15.00 item in Department 1, split the total of the sale between \$5.00 in cash payment and \$10.90 in charge payment):

1. ENTER (1500), then PRESS the [DEPARTMENT 1] key.
2. PRESS the [SUBTOTAL/W/TAX] key.
3. ENTER (500), then PRESS the [AMT TEND/TOTAL] key.
4. PRESS the [CHARGE] key.

Note: In using the Split Tendering function, the amount in cash must always be registered first. Split Tendering can also be finalized with the Check key. Simply substitute the Check key in Step 4 of this example.

01-28-99	MC #1234
DEPT 1	*15.00T
	*0.90T1
TOTAL	*15.90
CASH	*5.00
CHARGE	*10.90

AM10-59 0017

TRANSACTION EXAMPLES FOR OPERATING THE CASH REGISTER

NOTE: Turn the key to the "REG" (REGISTER) position for registering sales transactions.

IMPORTANT: It is not necessary to press the Decimal Point when ringing up a price.

REMINDER: If Clerk Numbers are programmed, be sure to ENTER the (CLERK #), then PRESS the [CLERK] key before ringing up a sale.

In the examples below, Department 1 is programmed as taxable with a 6% (TAX 1) rate and Clerk #1 is used.

EXAMPLE 7: NO-SALE FUNCTION - (Used primarily to open the drawer without ringing up a sale. For example, to give change):

1. **PRESS** the [# /ST/NS] key.
- Note: The number of times the No-Sale key is used will be monitored on the Management Reports.

01-28-99 MC #:1234
NO SALE
AM10-59 0018

EXAMPLE 8: REGISTERING A REFERENCE NUMBER - (Used to print a number, up to 10 digits, to identify an invoice number, credit card number or any other number on receipts. Ring up the number 1234567 in a standard sale):

1. **ENTER** (1234567), **PRESS** the [# /ST/NS] key.
 2. **ENTER** (100), **PRESS** the [DEPARTMENT 1] key.
 3. **PRESS** the [AMT TEND/TOTAL] key.
- Note: The use of the reference number is not recorded in any activity counter or sales totals on the Management Reports.

01-28-99 MC #:1234
1234567 #
DEPT 1 *1.00T1
*0.06T1
TOTAL *1.06
CASH *1.06
AM10-59 0019

EXAMPLE 9: MULTIPLYING BY A FRACTION - (Multiply the quantity of 1.25, i.e., 1¼ yards of fabric at \$1.00 in Department 1):

1. **ENTER** (1.25), then **PRESS** the [QTY/DATE] key.
Note: When multiplying by a fraction it is necessary to use the decimal point.
 2. **ENTER** (100), then **PRESS** the [DEPARTMENT 1] key.
 3. **PRESS** the [AMT TEND/TOTAL] key.
- Note: The range of numbers from .01 to 999.99 can be used when ringing up the quantity of an item.

01-28-99 MC #:1234
1.25X
1.00@
DEPT 1 *1.25T1
*0.08T1
TOTAL *1.33
CASH *1.33
AM10-59 0020

TRANSACTION EXAMPLES FOR OPERATING THE CASH REGISTER

NOTE: Turn the key to the "REG" (REGISTER) position for registering sales transactions.
IMPORTANT: It is not necessary to press the Decimal Point when ringing up a price.
REMINDER: If Clerk Numbers are programmed, be sure to ENTER the (CLERK #), then PRESS the [CLERK] key before ringing up a sale.

In the examples below, Department 1 is programmed as taxable with a 6% (TAX 1) rate and Clerk #1 is used.

EXAMPLE 10: MULTIPLICATION SALE - (Ring up a \$1.00 item 3 times in Department 1):

1. ENTER (3), then PRESS the [QTY/DATE] key.
2. ENTER (100), then PRESS the [DEPARTMENT 1] key.
3. PRESS the [AMT TEND/TOTAL] key.

Note: The range of numbers from .01 to 999.99 can be used when ringing up the quantity of an item.

01-28-99	MC #:1234
	3X
	1.00@
DEPT 1	*3.00T1
	*0.18T1
TOTAL	*3.18
CASH	*3.18

AM10-59 0022

EXAMPLE 11: REGISTERING A DEPARTMENT UNIT PRICE - (Assume Department 1 is pre-programmed for \$1.00. Ring up this price):

1. PRESS the [DEPARTMENT 1] key.
2. PRESS the [AMT TEND/TOTAL] key.

Note: Up to 40 prices can be accessed by the use of the 40 Department keys for quick ring-ups.

01-28-99	MC #:1234
DEPT 1	*1.00T1
	*0.06T1
TOTAL	*1.06
CASH	*1.06

AM10-59 0022

EXAMPLE 12: MULTIPLICATION OF A DEPARTMENT UNIT PRICE - (Assume the Department 1 key is pre-programmed for \$1.00. Ring up this price three times):

1. ENTER (3), then PRESS the [QTY/DATE] key.
2. PRESS the [DEPARTMENT 1] key.
3. PRESS the [AMT TEND/TOTAL] key.

Note: Up to 40 prices can be accessed by the use of the 40 Department keys for quick ring-ups.

01-28-99	MC #:1234
	3X
	1.00@
DEPT 1	*3.00T1
	*0.18T1
TOTAL	*3.18
CASH	*3.18

AM10-59 0023

TRANSACTION EXAMPLES FOR OPERATING THE CASH REGISTER

NOTE: Turn the key to the "REG" (REGISTER) position for registering sales transactions.

IMPORTANT: It is not necessary to press the Decimal Point when ringing up a price.

REMINDER: If Clerk Numbers are programmed, be sure to ENTER the (CLERK #), then PRESS the [CLERK] key before ringing up a sale.

In the examples below, Department 1 is programmed as taxable with a 6% (TAX 1) rate and Department 2 is programmed for no tax and Clerk #1 is used.

EXAMPLE 13: EXEMPTING TAX ON AN ITEM - (Assume the Department 1 key is programmed as a taxable department. Ring up a \$1.00 item in Department 1 without charging tax):

1. PRESS the [NON TAX] key.
2. ENTER (100), then PRESS the [DEPARTMENT 1] key.
3. PRESS the [AMT TEND/TOTAL] key.

01-28-99 MC #:1234

DEPT 1 *1.00

TOTAL *1.00

CASH *1.00

AM10-59 0024

EXAMPLE 14: EXEMPTING TAX ON AN ENTIRE SALE - (Assume the Department 1 key is programmed as a taxable department. Ring up a \$1.00 item and a \$1.50 item in Department 1 without charging tax):

1. ENTER (100), then PRESS the [DEPARTMENT 1] key.
2. ENTER (150), then PRESS the [DEPARTMENT 1] key.
3. PRESS the [NON TAX] key.
4. PRESS the [AMT TEND/TOTAL] key.

01-28-99 MC #:1234

DEPT 1 *1.00T1

DEPT 1 *1.50T1

TOTAL *2.50

CASH *2.50

AM10-59 0027

EXAMPLE 15: ADDING TAX TO A NON TAXABLE DEPARTMENT - (Assume the Department 2 key is programmed for no tax and the Department 1 key is programmed with a 6% TAX 1 tax rate. Ring up a \$1.00 item in Department 2, charging the 6% tax rate):

1. PRESS the [TAX 1] key.
2. ENTER (100), then PRESS the [DEPARTMENT 2] key.
3. PRESS the [AMT TEND/TOTAL] key.

01-28-99 MC #:1234

DEPT 2 *1.00T1

*0.06T1

TOTAL *1.06

CASH *1.06

AM10-59 0028

TRANSACTION EXAMPLES FOR OPERATING THE CASH REGISTER

NOTE: Turn the key to the "REG" (REGISTER) position for registering sales transactions.

IMPORTANT: It is not necessary to press the Decimal Point when ringing up a price.

REMINDER: If Clerk Numbers are programmed, be sure to ENTER the (CLERK #), then PRESS the [CLERK] key before ringing up a sale.

In the examples below, Department 1 is programmed as taxable with a 6% (TAX 1) rate and Clerk #1 is used.

EXAMPLE 16: RECEIVED-ON-ACCOUNT SALE - ("Indicates money put in the cash drawer". Ring up \$50.00 to show the beginning cash-in-drawer amount for the day):

1. ENTER (5000), then PRESS the [-%/RA] key.

01-28-99 MC #:1234

RECD ACCT *50.00

AM10-59 0030

EXAMPLE 17: PAID-OUT SALE - ("Indicates money taken out of the cash drawer". Ring up \$10.00 to show money paid out of the cash drawer):

1. ENTER (1000), then PRESS the [+%/PO] key.

01-28-99 MC #:1234

PAID OUT *10.00

AM10-59 0031

EXAMPLE 18: RETURN SALE - (Refund a \$1.00 item in Department 1 and refund a \$1.50 item three times in Department 1):

1. PRESS the [RETURN] key.
2. ENTER (100), then PRESS the [DEPARTMENT 1] key.
3. PRESS the [RETURN] key.
4. ENTER (3), then PRESS the [QTY/DATE] key.
5. ENTER (150), then PRESS the [DEPARTMENT 1] key.
6. PRESS the [AMT TEND/TOTAL] key.

Note: The Return function can be performed in the middle of any sales transactions or by itself in a transaction.

01-28-99 MC #:1234

REFUND
DEPT 1 *-1.00T1
3X
1.50@

REFUND
DEPT 1 *-4.50T1
*0.33T1

TOTAL *-5.83
CASH *-5.83

AM10-59 0032

TRANSACTION EXAMPLES FOR OPERATING THE CASH REGISTER

NOTE: Turn the key to the "REG" (REGISTER) position for registering sales transactions.
IMPORTANT: It is not necessary to press the Decimal Point when ringing up a price.
REMINDER: If Clerk Numbers are programmed, be sure to ENTER the (CLERK #), then PRESS the [CLERK] key before ringing up a sale.

In the examples below, Department 1 is programmed as taxable with a 6% (TAX 1) rate and Department 2 is programmed for no tax and Clerk #1 is used.

EXAMPLE 19: COUPON DISCOUNT SALE:

There are various versions of ringing up a Coupon Discount sale. Based on the option selected for the "TAX STATUS NUMBER" (refer to Pages 29-30 for details on programming), choose the example below which best serves your needs:

VERSION 1: In the following two examples, the TAX STATUS NUMBER for the Coupon key is programmed for the option "00":

- a. If no tax is programmed in your cash register, ring up a \$1.00 item in Department 2 and then deduct the 20¢ coupon:
1. ENTER (100), then PRESS the [DEPARTMENT 2] key.
 2. ENTER (20), then PRESS the [CPN] key.
 3. PRESS the [AMT TEND/TOTAL] key.

01-28-99 MC #:1234

DEPT 2	*1.00
COUPON	*-0.20

TOTAL	*0.80
CASH	*0.80

AM10-59 0033

- b. If you want to charge the tax rate on the original amount of an item (the amount before the coupon is deducted), ring up a \$1.00 item in Department 1 and then deduct the 20¢ coupon:

01-28-99 MC #:1234

DEPT 1	*1.00T1
COUPON	*-0.20
	*0.06T1

TOTAL	*0.86
CASH	*0.86

AM10-59 0034

VERSION 2: In the following example, the TAX STATUS NUMBER for the Coupon key is programmed for the option "01":

If you want to charge the tax rate on the discounted amount of an item (the amount after the coupon is deducted), ring up a \$1.00 item in Department 1 and then deduct the 20¢ coupon:

01-28-99 MC #:1234

DEPT 1	*1.00T1
COUPON	*-0.20

TOTAL	*0.85
CASH	*0.85
	*0.05T1

AM10-59 0037

1. ENTER (100), then PRESS the [DEPARTMENT 1] key.
2. ENTER (20), then PRESS the [CPN] key.
3. PRESS the [AMT TEND/TOTAL] key.

TRANSACTION EXAMPLES FOR OPERATING THE CASH REGISTER

NOTE: Turn the key to the "REG" (REGISTER) position for registering sales transactions.

IMPORTANT: It is not necessary to press the Decimal Point when ringing up a price.

REMINDER: If Clerk Numbers are programmed, be sure to ENTER the (CLERK #), then PRESS the [CLERK] key before ringing up a sale.

In the examples below, Department 1 is programmed as taxable with 6% (TAX 1) rate and Department 2 is programmed for no tax and Clerk #1 is used.

EXAMPLE 20: MINUS PERCENTAGE DISCOUNT SALE:

VERSION 1: If no tax is programmed in your cash register, ring up a \$1.00 item in Department 2 and apply a pre-programmed discount rate of 10%:

1. ENTER (100), then PRESS the [DEPARTMENT 2] key.
2. PRESS the [-%/RA] key. If the Minus Percentage Discount Rate is NOT programmed, type in the discount rate before pressing the [-%/RA] key.
3. PRESS the [AMT TEND/TOTAL] key.

01-28-99 MC #:1234

DEPT 2	*1.00
COUPON	*-0.10

TOTAL	*0.90
CASH	*0.90

AM10-59 0039

VERSION 2: When ringing a taxable item with a percentage discount, tax will automatically be charged on the discounted amount (the amount after the percentage discount is deducted).

1. ENTER (100), then PRESS the [DEPARTMENT 1] key.
2. PRESS the [-%/RA] key. If the Minus Percentage Discount Rate is NOT pre-programmed, type in the discount rate before pressing the [-%/RA] key.
3. PRESS the [AMT TEND/TOTAL] key.

01-28-99 MC #:1234

DEPT 1	*1.00T1
COUPON	*-0.10
	*0.05T1

TOTAL	*0.95
CASH	*0.95

AM10-59 0040

TRANSACTION EXAMPLES FOR OPERATING THE CASH REGISTER

NOTE: Turn the key to the "REG" (REGISTER) position for registering sales transactions.
IMPORTANT: It is not necessary to press the Decimal Point when ringing up a price.
REMINDER: If Clerk Numbers are programmed, be sure to ENTER the (CLERK #), then PRESS the [CLERK] key before ringing up a sale.

In the examples below, Department 1 is programmed as taxable with a 6% (TAX 1) rate and Department 2 is programmed for no tax and Clerk #1 is used.

EXAMPLE 21: PLUS PERCENTAGE SALE:

VERSION 1: If no tax is programmed in your cash register, ring up a \$1.00 item in Department 2 and apply a pre-programmed Plus Percentage Rate of 10%:

	01-28-99	MC #:1234
1. ENTER (100), then PRESS the [DEPARTMENT 2] key.	DEPT 2	*1.00
2. PRESS the [+%/PO] key. If the Plus Percentage Rate is NOT pre-programmed, type in the plus percentage rate before pressing the [+%/PO] key.	ADD ON	10.00%+ *0.10
3. PRESS the [AMT TEND/TOTAL] key.	TOTAL	*1.10
	CASH	*1.10
		AM10-59 0041

VERSION 2: When ringing a taxable item with a Plus Percentage the tax will automatically be charged on the amount after the plus percentage is added.

	01-28-99	MC #:1234
1. ENTER (100), then PRESS the [DEPARTMENT 1] key.	DEPT 1	*1.00T1
2. PRESS the [+%/PO] key. If the Plus Percentage Rate is NOT pre-programmed, type in the Plus Percentage Rate before pressing the [+%/PO] key.	ADD ON	10.00%+ *0.10 *0.07T1
3. PRESS the [AMT TEND/TOTAL] key.	TOTAL	*1.17
	CASH	*1.17
		AM10-59 0042

TRANSACTION EXAMPLES FOR OPERATING THE CASH REGISTER

NOTE: Turn the key to the "REG" (REGISTER) position for registering sales transactions.

IMPORTANT: It is not necessary to press the Decimal Point when ringing up a price.

REMINDER: If Clerk Numbers are programmed, be sure to ENTER the (CLERK #), then PRESS the [CLERK] key before ringing up a sale.

In the examples below, Department 1 is programmed as taxable with a 6% (TAX 1) rate and Clerk #1 is used.

EXAMPLE 22: USE OF THE ERROR-CORRECT [VOID] KEY:

Corrects the last entry run up during a sale. Ring up a \$1.00 item in Department 1, then use the [VOID] key to cancel this entry and ring up a \$10.00 in Department 1 to register a new entry:

1. ENTER (100), then PRESS the [DEPARTMENT 1] key.
2. PRESS the [VOID] key.
3. ENTER (1000), then PRESS the [DEPARTMENT 1] key.
4. PRESS the [AMT TEND/TOTAL] key.

01-28-99	MC #:1234
DEPT 1	*1.00 T1
VOID/CORR	
DEPT 1	*-1.00 T1
DEPT 1	*10.00 T1
	*0.60 T1
TOTAL	*10.60
CASH	*10.60
AM 9-33 0036	

EXAMPLE 23: VOIDING A SALE - (Void a \$1.00 item in Department 1):

1. ENTER (100), PRESS the [VOID] key, then PRESS the [DEPARTMENT 1] key.
2. PRESS the [AMT TEND/TOTAL] key.

01-28-99	MC #:1234
VOID/CORR	
DEPT 1	*-1.00 T1
	*-0.06 T1
TOTAL	*-1.06
CASH	*-1.06
AM 9-34 0037	

EXAMPLE 24: VOIDING A MULTIPLICATION SALE - (Void a \$1.00 item in Department 1 three times):

1. ENTER (3), then PRESS the [QTY/DATE] key.
2. ENTER (100), PRESS the [VOID] key, then PRESS the [DEPARTMENT 1] key.
3. PRESS the [AMT TEND/TOTAL] key.

01-28-99	MC #:1234
	3 X
	1.00 @
VOID/CORR	
DEPT 1	*-3.00 T1
	*-0.18 T1
TOTAL	*-3.18
CASH	*-3.18
AM 9-35 0038	

TRANSACTION EXAMPLES FOR OPERATING THE CASH REGISTER

NOTE: Turn the key to the "REG" (REGISTER) position for registering sales transactions.
IMPORTANT: It is not necessary to press the Decimal Point when ringing up a price.
REMINDER: If Clerk Numbers are programmed, be sure to ENTER the (CLERK #), then PRESS the [CLERK] key before ringing up a sale.

In the examples below, Department 1 is programmed as taxable with a 6% (TAX 1) rate and Clerk #1 is used.

EXAMPLE 25: VOIDING A COUPON SALE - (Void a \$1.00 item in Department 1, void a 20¢ coupon):

1. ENTER (100), PRESS the [VOID] key, then PRESS the [DEPARTMENT 1] key.
2. ENTER (20), PRESS the [VOID] key, then PRESS the [CPN] key.
3. PRESS the [AMT TEND/TOTAL] key.

01-28-99	MC #:1234
VOID/CORR	
DEPT 1	*-1.00 T1
VOID/CORR	
COUPON	*0.20
	*-0.06 T1
TOTAL	*-0.86
CASH	*-0.86

AM11-04 0039

EXAMPLE 26: VOIDING A MINUS PERCENTAGE DISCOUNT SALE - (Void a \$1.00 item in Department 1 and void a pre-programmed Minus Percentage Discount Rate of 10%):

1. ENTER (100), PRESS the [VOID] key, then PRESS the [DEPARTMENT 1] key.
2. PRESS the [-%/RA] key. If the Minus Percentage Discount Rate is NOT pre-programmed, type in the discount rate before pressing the [-%/RA] key.
3. PRESS the [AMT TEND/TOTAL] key.

01-28-99	MC #:1234
VOID/CORR	
DEPT 1	*-1.00 T1
DISCOUNT	10.00 %-
	*0.10
	*-0.05 T1
TOTAL	*-0.95
CASH	*-0.95

AM 9-27 0024

EXAMPLE 27: VOIDING A PLUS PERCENTAGE SALE - (Void a \$1.00 item in Department 1 and void a pre-programmed Plus Percentage Rate of 10%):

1. ENTER (100), PRESS the [VOID] key, then PRESS the [DEPARTMENT 1] key.
2. PRESS the [+% /PO] key. If the Plus Percentage Rate is NOT pre-programmed, type in the Plus Percentage Rate before pressing the [+% /PO] key.
3. PRESS the [AMT TEND/TOTAL] key.

01-28-99	MC #:1234
VOID/CORR	
DEPT 1	*-1.00 T1
ADD ON	10.00 % +
	*-0.10
	*-0.07 T1
TOTAL	*-1.17
CASH	*-1.17

AM 9-27 0025

TRANSACTION EXAMPLES FOR OPERATING THE CASH REGISTER

NOTE: Turn the key to the "REG" (REGISTER) position for registering sales transactions.

IMPORTANT: It is not necessary to press the Decimal Point when ringing up a price.

REMINDER: If Clerk Numbers are programmed, be sure to **ENTER** the (CLERK #), then **PRESS** the [CLERK] key before ringing up a sale.

In the examples below, Department 1 is programmed as taxable with a 6% (TAX 1) rate and Department 2 is programmed for no tax and Clerk #1 is used.

EXAMPLE 28: VOIDING A DEPARTMENT PRESET PRICE - (Assume Department 1 is programmed for the price of \$1.00 and Department 2 is programmed for the price of \$2.00. Ring up Department 1 and Department 2 prices, then void the Department 1 entry):

1. **PRESS** the [DEPARTMENT 1] key.
2. **PRESS** the [DEPARTMENT 2] key.
3. **PRESS** the [CLEAR] key.
4. **PRESS** the [VOID], then **PRESS** the [DEPARTMENT 1] key.
5. **PRESS** the [AMT TEND/TOTAL] key.

01-28-99	MC #:1234
DEPT 1	*1.00 T1
DEPT 2	*2.00
VOID/CORR	
DEPT 1	*-1.00 T1
TOTAL	*2.00
CASH	*2.00

AM 9-28 0026

EXAMPLE 29: VOIDING MULTIPLICATION OF A DEPARTMENT PRESET PRICE - (Assume Department 1 is programmed for the price of \$1.00 and Department 2 is programmed for the price of \$2.00. Ring up Department 1 three times and Department 2 two times, then void the Department 1 entry rung up three times):

1. **ENTER** (3), then **PRESS** the [QTY/DATE] key.
2. **PRESS** the [DEPARTMENT 1] key.
3. **ENTER** (2), then **PRESS** the [QTY/DATE] key.
4. **PRESS** the [DEPARTMENT 2] key.
5. **PRESS** the [CLEAR] key.
6. **PRESS** the [VOID] key.
7. **ENTER** (3), then **PRESS** the [QTY/DATE] key.
8. **PRESS** the [DEPARTMENT 1] key.
9. **PRESS** the [AMT TEND/TOTAL] key.

01-28-99	MC #:1234
	3 X
	1.00 @
DEPT 1	*3.00 T1
	2 X
	2.00 @
DEPT 2	*4.00
	3 X
	1.00 @
VOID/CORR	
DEPT 1	*-3.00 T1
TOTAL	*4.00
CASH	*4.00

AM 9-28 0027

TRANSACTION EXAMPLES FOR OPERATING THE CASH REGISTER

NOTE: Turn the key to the "REG" (REGISTER) position for registering sales transactions.

IMPORTANT: It is not necessary to press the Decimal Point when ringing up a price.

REMINDER: If Clerk Numbers are programmed, be sure to ENTER the (CLERK #), then PRESS the [CLERK] key before ringing up a sale.

In the examples below, Department 1 is programmed as taxable with a 6% (TAX 1) rate and Department 2 is programmed for no tax and Clerk #1 is used.

EXAMPLE 30: VOIDING A DEPARTMENT PRESET PRICE WITH A MINUS PERCENTAGE DISCOUNT - (Assume Department 1 is programmed for \$1.00, Department 2 is programmed for \$2.00, and the [-% / RA] key is pre-programmed for 10%. Ring up Department 1 and deduct 10%, ring up Department 2 and deduct 10%, then void the Department 1 entry with the 10% discount):

1. PRESS the [DEPARTMENT 1] key, then PRESS the [-% / RA] key.
2. PRESS the [DEPARTMENT 2] key, then PRESS the [-% / RA] key.
3. PRESS the [CLEAR] key.
4. PRESS the [VOID] key, PRESS the [DEPARTMENT 1] key, then PRESS the [-% / RA] key. If the Minus Percentage Discount Rate is NOT pre-programmed, type in the discount rate before pressing the [-% / RA] key.
5. PRESS the [AMT TEND / TOTAL] key.

01-28-99	MC #:1234
DEPT 1	*1.00T1
DISCOUNT	10.00%-
	*-0.10
DEPT 2	*2.00
DISCOUNT	10.00%-
	*-0.20
VOID / CORR	
DEPT 1	*-1.00T1
DISCOUNT	10.00%-
	*0.10
TOTAL	*1.80
CASH	*1.80

AM 9-30 0030

EXAMPLE 31: VOIDING A DEPARTMENT PRESET PRICE WITH A COUPON DISCOUNT - (Assume Department 1 is programmed for \$1.00 and Department 2 is programmed for \$2.00. Ring up Department 1 and deduct 20%, ring up Department 2 and deduct 20%, then void the Department 1 entry with the 20% coupon discount):

1. PRESS the [DEPARTMENT 1] key.
2. ENTER (20), then PRESS the [CPN] key.
3. PRESS the [DEPARTMENT 2] key.
4. ENTER (20), then PRESS the [CPN] key.
5. PRESS the [CLEAR] key.
6. PRESS the [VOID] key, then PRESS the [DEPARTMENT 1] key.
7. ENTER (20), PRESS the [VOID] key, then PRESS the [CPN] key.
8. PRESS the [AMT TEND / TOTAL] key.

01-28-99	MC #:1234
DEPT 1	*1.00T1
COUPON	*-0.20
DEPT 2	*2.00
COUPON	*-0.20
VOID / CORR	
DEPT 1	*-1.00T1
VOID / CORR	
COUPON	*0.20
TOTAL	*1.80
CASH	*1.80

AM 9-30 0031

TRANSACTION EXAMPLES FOR OPERATING THE CASH REGISTER

NOTE: Turn the key to the "REG" (REGISTER) position for registering sales transactions.

IMPORTANT: It is not necessary to press the Decimal Point when ringing up a price.

REMINDER: If Clerk Numbers are programmed, be sure to ENTER the (CLERK #), then PRESS the [CLERK] key before ringing up a sale.

In the examples below, Department 1 is programmed as taxable with a 6% (TAX 1) rate and Clerk #1 is used.

EXAMPLE 32: PLU SALE - (Assume the PLU # is preset for the price of \$1.99 in Department 1. Ring up the PLU #1):

1. ENTER (1), then PRESS the [PLU] key.
2. PRESS the [AMT TEND/TOTAL] key.

Note: PLUs follow the same procedure for ringing up Coupons, Refunds, Minus Percentage Discounts, Plus Percentages, etc. as described throughout the section for Transaction Examples For Operating The Cash Register.

01-28-99	MC #:	1234
PLU No 001		*1.99T1
		*0.12T1
TOTAL		*2.11
CASH		*2.11
	PM 1-14	0052

Temporarily overriding a PLU PRICE: If you would like to enter a different price than what is programmed into a PLU #: ENTER the (DESIRED PRICE), PRESS the [PLU ALT] key, ENTER the (PLU #), then PRESS the [PLU] key. The letters "**PRICE**" will appear above the price of the PLU # to indicate the overriding of a PLU price.

EXAMPLE 33: PLU SALE WITH PLU DESCRIPTION - (PLU #1 has been programmed with the description "apple"):

1. ENTER (1), then PRESS the [PLU] key.
2. PRESS the [AMT TEND/TOTAL] key.

01-28-99	MC #:	1234
CLERK 1		
APPLE		*1.99
TOTAL		*1.99
CASH		*1.99
	AM 2-07	0042

EXAMPLE 34: OVERRIDING A PLU SALE - If you need to enter a different price than what is programmed into a PLU #: Enter the price (1.00), press the [PLU ALT] key, enter the [PLU #], then press the [PLU] key. The word *PRICE* appears above the PLU description or PLU #:

1. ENTER the price (1.00), PRESS the [PLU ALT] key, ENTER the [PLU #], then PRESS the [PLU] key.
2. PRESS the [AMT TEND/TOTAL] key.
3. The word *PRICE* appears above the PLU description or PLU #.

01-28-99	MC #:	1234
PRICE		
PLU No 001		*1.00T1
		*0.06T1
TOTAL		*1.06
CASH		*1.06
	AM 2-07	0006

TRANSACTION EXAMPLES FOR OPERATING THE CASH REGISTER

NOTE: Turn the key to the "REG" (REGISTER) position for registering sales transactions.

IMPORTANT: It is not necessary to press the Decimal Point when ringing up a price.

REMINDER: If Clerk Numbers are programmed, be sure to ENTER the (CLERK #), then PRESS the [CLERK] key before ringing up a sale.

In the examples below, Department 1 is programmed as taxable with a 6% (TAX 1) rate and Clerk #1 is used.

EXAMPLE 35: VOIDING A PLU SALE - (Assume PLU #1 is preset for the price of \$1.00 in Department 1. Void PLU #1):

1. ENTER (1), PRESS the [VOID] key, then PRESS the [PLU] key.
2. PRESS the [AMT TEND/TOTAL] key.

01-28-99	MC #:1234
VOID/CORR	
PLU No 001	*-1.00T1
	*-0.06T1
TOTAL	*-1.06
CASH	*-1.06
 AM11-15 0041	

EXAMPLE 36: VOIDING A PLU MULTIPLICATION SALE - (Assume PLU #1 is preset for the price of \$1.00 in Department 1. Void PLU #1 three times):

1. ENTER (3), then PRESS the [QTY/DATE] key.
2. ENTER (1), PRESS the [VOID] key, then PRESS the [PLU] key.
3. PRESS the [AMT TEND/TOTAL] key.

01-28-99	MC #:1234
	3X
	1.00@
VOID/CORR	
PLU No 001	*-3.00T1
	*-0.18T1
TOTAL	*-3.18
CASH	*-3.18
 AM11-15 0040	

EXAMPLE 37: VOIDING A PLU SALE WITH A COUPON DISCOUNT - (Assume PLU #1 is preset for the price of \$1.00 in Department 1 and deduct a 20¢ coupon. Void this entry):

1. ENTER (1), PRESS the [VOID] key, then PRESS the [PLU] key.
2. ENTER (20), PRESS the [VOID] key, then PRESS the [CPN] key.
3. PRESS the [AMT TEND/TOTAL] key.

01-28-99	MC #:1234
VOID/CORR	
PLU No 001	*-1.00T1
VOID/CORR	
COUPON	*0.20
	*-0.06T1
TOTAL	*-0.95
CASH	*-0.95
 AM 9-31 0034	

TRANSACTION EXAMPLES FOR OPERATING THE CASH REGISTER

NOTE: Turn the key to the "REG" (REGISTER) position for registering sales transactions.

IMPORTANT: It is not necessary to press the Decimal Point when ringing up a price.

REMINDER: If Clerk Numbers are programmed, be sure to ENTER the (CLERK #), then PRESS the [CLERK] key before ringing up a sale.

EXAMPLE 38: VOIDING A PLU SALE WITH A MINUS PERCENTAGE DISCOUNT - (Assume PLU #1 is preset for the price of \$1.00 in Department 1 and the [-%/RA] key is pre-programmed for 10%. Ring up PLU #1, deduct 10%, then void this entry):

1. ENTER (1), PRESS the [VOID] key, then PRESS the [PLU] key.
2. PRESS the [-%/RA] key. If the Minus Percentage Discount Rate is NOT pre-programmed, type in the discount rate before pressing the [-%/RA] key.
3. PRESS the [AMT TEND/TOTAL] key.

01-28-99 MC #:1234

VOID/CORR
PLU No 001 *-1.00T1
DISCOUNT 10.00%-
*0.10
*-0.05T1

TOTAL *-0.95
CASH *-0.95

AM 9-31 0034

EXAMPLE 39: VOIDING A PLU SALE WITH A PLUS PERCENTAGE RATE - (Assume PLU #1 is preset for the price of \$1.00 in Department 1 and the [+%/PO] key is pre-programmed for 10%. Ring up PLU #1, add 10%, then void this entry):

1. ENTER (1), PRESS the [VOID] key, then PRESS the [PLU] key.
2. PRESS the [+%/PO] key. If the Plus Percentage Rate is NOT pre-programmed, type in the discount rate before pressing the [+%/PO] key.
3. PRESS the [AMT TEND/TOTAL] key.

01-28-99 MC #:1234

VOID/CORR
PLU No 001 *-1.00T1
ADD ON 10.00%+
*0.10
*-0.07T1

TOTAL *-1.17
CASH *-1.17

AM 9-31 0035

EXAMPLE 40: GALLONAGE SALES TRANSACTION - In this example, Department 4 has been programmed for Gallonage Mode and is non-taxable. Ring 10.759 gallons at \$1.149 per gallon:

1. ENTER (10.759), then PRESS the [QTY/DATE] key.
2. ENTER (1149), then PRESS the [DEPARTMENT 1] key.
3. PRESS the [AMT TEND/TOTAL] key.

01-28-99 MC #:1234

10.759X
1.149@
DEPT 4 *12.36

TOTAL *12.36
CASH *12.36

PM 2-19 0008

TRANSACTION EXAMPLES FOR OPERATING THE CASH REGISTER

NOTE: Turn the key to the "REG" (REGISTER) position for registering sales transactions.

IMPORTANT: It is not necessary to press the Decimal Point when ringing up a price.

REMINDER: If Clerk Numbers are programmed, be sure to ENTER the (CLERK #), then PRESS the [CLERK] Key before ringing up a sale.

In the examples below, Department 1 is programmed as taxable with a 6% (TAX 1) rate and Clerk #1 is used.

EXAMPLE 41: VALIDATING A CHECK SALE - (Ring up a \$1.00 item in Department 1 and validate a check using Validation Format #1):

1. ENTER (100), then PRESS the [DEPARTMENT 1] Key.
2. PRESS the [ST/W/TAX] Key.
3. PRESS the [CHECK/VALID] Key.
4. Place the customer's check horizontally into the open printer slot (with the front of the check facing away from you).
5. PRESS the [CHECK/VALID] Key again, then PRESS the [CHECK/VALID] Key again.
6. When the printer stops, remove the check from the machine.

01-28-99 MC #:1234

FILM *1.00T1
*0.06T1

TOTAL *1.06
CHECK *1.06

PM 1-56 0068

Note: Validation can also be performed with the [CHARGE] and [AMT TEND/TOTAL] Key. To view the different formats available, see Page 44.

01-28-99 0000 0068 CHECK *1.06

EXAMPLE 42: VALIDATING A SPLIT TENDER SALE - (Ring up a \$20.00 item in Department 1, split the total of the sale between a \$5.00 cash payment and the remaining \$16.20 in a check payment, and validate the two forms of payments with the corresponding prices):

1. ENTER (2000), then PRESS the [DEPARTMENT 1] Key.
2. PRESS the [ST/W/TAX] Key.
3. ENTER (500), then PRESS the [AMT TEND/TOTAL] Key.
4. PRESS the [CHECK/VALID] Key.
5. Place the customer's check horizontally into the open printer slot (with the front of the check facing away from you).
6. PRESS the [AMT TEND/TOTAL] Key, then PRESS the [CHECK/VALID] Key.
7. Remove the customer's check from the machine. Turn the check over and place it into the open printer slot (with the front of the check still facing away from you).
8. PRESS the [CHECK/VALID] Key, then PRESS the [VALID] Key.
9. Remove the customer's check from the machine.

01-28-99 MC #:1234

FILM *20.00T1
*1.20T1

TOTAL *21.20
CASH *5.00
CHECK *16.20

PM 1-58 0069

Note: Validation can also be performed with the charge and (AMT TEND/TOTAL) Key. To view the different formats available, see Page 44.

01-28-99 0000 0069 CASH *5.00

01-28-99 0000 0069 CHECK *16.20

TRANSACTION EXAMPLES FOR OPERATING THE CASH REGISTER

NOTE: Turn the key to the "REG" (REGISTER) position for registering sales transactions.

IMPORTANT: It is not necessary to press the Decimal Point when ringing up a price.

REMINDER: If Clerk Numbers are programmed, be sure to ENTER the (CLERK #), then PRESS the [CLERK] Key before ringing up a sale.

EXAMPLE 43: ISSUING A DUPLICATE RECEIPT - (After completion of a sale, a second receipt can be issued).

Note: If desired, a procedure is offered to program the cash register so that the Duplicate Receipt feature will be completely shut off. For details, see Flag 32, on Page 38.

1. PRESS the [ST/W/TAX] key.

Note: If the Customer Receipt switch is shut off, a duplicate receipt can still be issued by turning the switch on and then pressing the [ST/W/TAX] key.

THE MACHINE
WILL DUPLICATE
THE RECEIPT
OF ANY SALE
COMPLETED

X/Z MANAGEMENT REPORTS

The cash register is designed to maintain totals of all transaction data. Transaction data is maintained in the memory of the cash register as long as the battery back-up system is in effect. This data can be obtained in the "X" or "Z" positions. The read-out for the Management Reports is the same whether it is taken in the "X" or "Z" positions, the only difference is that the totals are reset to zero after a "Z" position reading.

"X" POSITION READING

There are two types of readings that can be taken in the "X" position; an "X1" reading and an "X2" reading. Note: To prevent accidental printing of the "X" reading, an "X" Manager Password can be set. Once the password is set, an "X" report will not print until the password is typed, for details see Page 19.

- **"X1" READING - Commonly known as a "mid-day" reading;** prints an accumulation of transaction data and is not reset to zero unless a "Z1" reading is taken. Use this position to print periodic readings of transaction totals during the course of the day.
- **"X2" READING - Commonly known as a "mid-week" or "mid-month" reading;** prints an accumulation of transaction data and is not reset to zero unless a "Z2" reading is taken. Use this position to print periodic readings of transaction totals during the course of several days.

"Z" POSITION READING

There are two types of readings that can be taken in the "Z" position; a "Z1" reading and a "Z2" reading. Note: To prevent accidental printing of the "Z" reading, a PRG/Z Manager Password can be set. Once the password is set, a "Z" report will not print until the password is typed, for details see Page 19.

- **"Z1" READING - Commonly known as a "end-of-day/daily-closeout" reading;** prints transaction data and resets all transaction totals to zero except the Running Grand Total. The machine will, however, still accumulate totals in memory until a "Z2" reading is taken. It is also possible to print a duplicate "Z1" Report. This is useful if the register runs out of paper or if there is a power outage during the printing of a "Z1" Report. This feature can also be turned off by Flag setting 25 (see Page 37).
- **"Z2" READING - Commonly known as a "weekly" or "monthly" reading;** prints transaction totals either on a weekly or monthly basis (not both) and resets all transaction totals to zero except the Running Grand Total.

MANAGEMENT REPORTS AVAILABLE

There are a total of five different kinds of reports available on the cash register:

- **FULL REPORT -** Includes totals of departments, tax, net sales, voids, returns, coupons, refunds, minus percentage, plus percentage, receipts-on-account, paid out, cash, check, charge, and the running grand total (only present on "Z" Reports).
- **PLU REPORT -** Lists quantity and cost of each PLU Number rung up.
- **CLERK REPORT -** Exclusively prints total sales amounts of each Clerk Number operated.
- **HOURLY REPORT -** Provides total sales amounts rung up each hour.
- **CASH-IN-DRAWER REPORT -** Only available in the "X" position simply tells you how much cash is in the drawer at the time of the report.

X/Z MANAGEMENT REPORTS (Continued)

The following lists the different Management Reports that are offered in the "X" and "Z" positions:

Key Positions	Report Symbols	Reports Known As	Management Reports Available
X	X1	Mid-Day	Full, PLU, Selective PLU, Selective Department, Clerk, Hourly, Cash-In-Drawer
X	X2	Mid-Week or Mid-Month	Full
Z	Z1	End-Of-Day or Daily-Close-out	Full, PLU, Clerk, Hourly
Z	Z2	Weekly or Monthly	Full

TO TAKE A CASH-IN-DRAWER REPORT

"X" + [QTY/DATE]

1. Turn the key to the "X" position.
2. If an "X" Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key now, or if you did NOT program an "X" Manager Password, go to Step 3.
3. PRESS the [QTY/DATE] key.

```
01-24-99    MC #:5555
C-I-D      *44.16  — SHOWS $44.16 CASH-IN-DRAWER TOTAL
AM 7-51    0010
```

TO TAKE AN HOURLY REPORT

"X" or "Z" + (11) + [AMT TEND/TOTAL]

1. Turn the key to the "X" or "Z" positions as desired.
2. If an "X" or a PRG/Z Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did NOT program an "X" or a PRG/Z Manager Password, go to Step 3.
3. PRESS (11), then PRESS the [AMT TEND/TOTAL] key.

Important: An hourly reading must be closed out in the "Z" position.

(The next page shows an example of an Hourly Report)

(Continued) X/Z MANAGEMENT REPORTS

HOURLY REPORT

* YOUR RECEIPT *		
* THANK YOU *		

09-17-99 MC #:1234		
TIME	X	
00:00		
0000	*0.00	
01:00		
0000	*0.00	
02:00		
0000	*10.00	
03:00		
0000	*0.00	
04:00		
0000	*0.00	
05:00		
0000	*0.00	
06:00		
0009	*129.20	SALES TOTAL (including tax) at 6:00 AM
07:00		
0007	*87.64	SALES TOTAL (including tax) at 7:00 AM
08:00		
0015	*219.70	
09:00		
0014	*179.40	
10:00		
0000	*82.50	
11:00		
0000	*0.00	
12:00		
0000	*0.00	
13:00		
0000	*0.00	
14:00		
0000	*0.00	
15:00		
0000	*0.00	
16:00		
0000	*0.00	
17:00		
0000	*0.00	
18:00		
0000	*0.00	
19:00		
0000	*0.00	
20:00		
0000	*0.00	
21:00		
0000	*0.00	
22:00		
0000	*0.00	
23:00		
0001	*50.00	
TIME REPORT WAS TAKEN PM 11-27 0015		

ACTIVITY COUNTER

NOTES: All hours print whether sale was made or not.

Time prints using 24 hour format.

X/Z MANAGEMENT REPORTS (Continued)

TO TAKE A CLERK REPORT

"X" or "Z" + [CLERK]

1. Turn the key to the "X" or "Z" position as desired.
2. If an "X" or a PRG/Z Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did NOT program an "X" or a PRG/Z Manager Password, go to Step 3.
3. PRESS the [CLERK] key.

Important: A Clerk Reading must be closed out in the "Z" position.

* YOUR RECEIPT *			
* THANK YOU *			

01-24-99	MC #:1234		MACHINE NUMBER
CLERK NO. or NAME WILL PRINT (if programmed)	CLERK X		
	CLERK 1		
	0023	*493.47	SALES TOTAL OF CLERK #1 (includes tax)
ACTIVITY COUNTER (# of transactions rung up by each clerk)	ANNE SMITH		
	0010	*207.90	SALES TOTAL OF CLERK #2 (includes tax)
	CLERK 3		
	0000	*0.00	
	CLERK 4		
	0000	*0.00	
	CLERK 5		
	0000	*0.00	
	CLERK 6		
	0000	*0.00	
	CLERK 7		
	0000	*0.00	
	CLERK 8		
	0000	*0.00	
	CLERK 9		
	0000	*0.00	
	CLERK 10		
	0000	*0.00	
	CLERK 11		
	0000	*0.00	
	CLERK 12		
	0000	*0.00	
	CLERK 13		
	0000	*0.00	
	CLERK 14		
	CLERK 26		
	TOTAL	*701.37	
AM10-28 0038			

NOTE: All 26 clerks
will print

(Continued) X/Z MANAGEMENT REPORTS

TO TAKE A PLU REPORT

"X" or "Z" + [PLU]

1. Turn the key to the "X" or "Z" position as desired.
2. If an "X" or a PRG/Z Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did NOT program an "X" or a PRG/Z Manager Password, go to Step 3.
3. PRESS the [PLU] key.

Important: A PLU Reading must be closed out in the "Z" position.

* YOUR RECEIPT *				
* THANK YOU *				

01-24-99 MC #:1234				
PLU			X	
PLU DESCRIPTION or PLU NUMBER (if no description is programmed)	APPLE	0007		SALES COUNTER
			*7.57	SALES TOTAL
	PLU No 002	0003	*9.87	
	PLU No 003	0003	*17.97	
	PLU No 004	0001	*0.07	
TOTAL			*35.48	TOTAL SALES OF ALL PLUs
TIME REPORT WAS TAKEN			AM11-35	0048

TO TAKE A SELECTIVE PLU SALES REPORT

This report prints sales totals for a selected range of PLUs. For example, to print a report for PLUs 10-50:

1. Turn the key to the "X" position.
2. If an "X" Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did NOT program an "X" Password, go to Step 3.
3. Enter the Starting PLU Number 010 (must be 3 digits).
4. Enter the Ending PLU Number 050.
5. PRESS the [PLU] key.

"X" + (Type the Starting PLU Number) + (Type the Ending PLU Number) + [PLU]
001-999 (3 digits) 001-999 (3 digits)

X/Z MANAGEMENT REPORTS (Continued)

TO TAKE A (Z or END-OF-DAY) FULL REPORT

"X" or "Z" + [AMT TEND/TOTAL]

1. Turn the key to the **"X" or "Z"** position as desired.
2. If an **"X"** or a PRG/Z Manager Password has been programmed, **ENTER** the (PASSWORD #), then **PRESS** the **[CHECK/VALID]** key, or if you did NOT program an **"X"** or a PRG/Z Manager Password, go to Step 3.
3. **PRESS** the **[AMT TEND/TOTAL]** key.

To issue a duplicate **"Z"** Report, press the **#/ST/NS** key and the **AMT TEND/TOTAL** key. If other keys are pressed after the first **"Z"** Report printing, the duplicate **"Z"** Report will not print. To disable the duplicate **"Z"** Report printing feature, Flag 25 must be changed (see Page 39).

Important: A Full Reading must be closed out in the **"Z"** position.

SEE ILLUSTRATION OF A FULL REPORT ON THE NEXT PAGE.

TO TAKE A (WEEKLY or MONTHLY) FULL REPORT

"X" or "Z" + (99) + [AMT TEND/TOTAL]

1. Turn the key to the **"X" or "Z"** position as desired.
2. If an **"X"** or a PRG/Z Manager Password has been programmed, **ENTER** the (PASSWORD #), then **PRESS** the **[CHECK/VALID]** key, or if you did NOT program an **"X"** or a PRG/Z Manager Password, go to Step 3.
3. **PRESS** (99), then **PRESS** the **[AMT TEND/TOTAL]** key.

SEE ILLUSTRATION OF A (WEEKLY or MONTHLY) FULL REPORT ON THE NEXT PAGE.

(Continued) X/Z MANAGEMENT REPORTS

FULL REPORT ILLUSTRATION

***** * YOUR RECEIPT * * THANK YOU * *****				
DATE	01-24-99	NC #:1234	MACHINE NUMBER	
ACTIVITY COUNTER	Z 1	0001	Z1 COUNTER	
	DEPT 1	0016 *20.00T1	DEPARTMENT 1 SALES TOTAL (Tax 1)	
	DEPT 2	0010 *28.00T2	DEPARTMENT 2 SALES TOTAL (Tax 2)	
	DEPT 3	0011 *33.00TX	DEPARTMENT 3 SALES TOTAL (Tax 1 & Tax 2)	
	DEPT 4	0010 *40.00	DEPARTMENT 4 SALES TOTAL (Non-Taxable)	
	DEPTTL	*121.00	ALL DEPARTMENT TOTALS	
	T 1	*2.50	TAX AMOUNT TOTAL	
	T 2	*2.44	COUNT (-) TOTAL	
	COUPON	*-0.80	-X TOTAL	
	DISCOUNT	*-1.98%	+X TOTAL	
	ADD ON	*2.22%	NET SALES TOTAL	
	NET	*125.38		
REFUND COUNTER	REFUND	0003 *-5.00	REFUND TOTAL	
VOID COUNTER	VOID/CORR	0002 *-5.00	VOID TOTAL	
	GROSS	*133.16	GROSS SALES TOTAL	
CASH SALES COUNTER	CASH	0011 *108.91	CASH SALES TOTAL	
CHECK COUNTER	CHECK	0001 *0.27	CHECK SALES TOTAL	
CHARGE COUNTER	CHARGE	0002 *16.00	CHARGE SALES TOTAL	
CREDIT COUNTER	CREDIT-1	0001 *1.00	CREDIT 1 SALES TOTAL	
RECEIVED-ON-ACCOUNT COUNTER	RECD ACCT	0001 *10.00	RECEIVED-ON-ACCOUNT TOTAL	
PAID OUT COUNTER	PAID OUT	0001 *-5.00	PAID OUT TOTAL	
	NO SALE	0003		
NO SALE COUNTER	C-I-D	*113.91	CASH-IN-DRAWER TOTAL	
	G T	*10296.42*	GRAND TOTAL	
TIME REPORT WAS TAKEN	PM 5-42	0049	CONSECUTIVE NUMBER	

X/Z MANAGEMENT REPORTS (Continued)

The following illustrates how totals are calculated for the Management Reports.

NET SALES TOTAL (NET) - Represents the true sales for the day. The Net sales total includes department total (DEPTTL), tax total (T1, T2, T3, T4), and less the coupon discount (COUPON) and less the percentage discount.

Note: Minus percentage discount (DISCOUNT), voids (VOID/CORR) and returns/refunds (REFUND) are all deducted from the department totals and the plus percentage (ADD ON) is added to the department totals. If you do not want the percentage discount and plus percentage reflected in the department totals, see Page 37, Flag 23, Option 1.

GROSS SALES TOTAL (GROSS) - Represents the total of all sales registered. The Gross Sales Total includes net sales total (NET), coupon discount (COUPON), minus percentage discount (DISCOUNT), return/refund (REFUND), and void (VOID/CORR).

SYSTEM BALANCE:

DEPARTMENT 1	(+)	20.00
DEPARTMENT 2	(+)	28.00
DEPARTMENT 3	(+)	33.00
DEPARTMENT 4	(+)	40.00
DEPARTMENT TOTAL	(=)	121.00
DEPARTMENT TOTAL	(+)	121.00
TAX TOTAL	(+)	4.94
COUPON DISCOUNT	(-)	.80
DISCOUNT %	(-)	1.98
ADD ON %	(+)	2.22
NET SALES TOTAL	(=)	125.38
NET SALES TOTAL	(+)	125.38
COUPON DISCOUNT	(+)	.80
MINUS PERCENTAGE	(+)	1.98
RETURN/REFUND	(+)	5.00
VOID	(+)	5.00
GROSS SALES	(=)	133.16

MEDIA BALANCE:

CASH SALES	(+)	108.91
RECEIVED ON ACCOUNT	(-)	10.00
PAID OUT	(-)	5.00
CASH-IN-DRAWER	(=)	113.91

NOTE: The Percentage Discount [-%] must be done after each item, not on the subtotal amount, for the formula given to balance as shown.

TO RESET THE Z1 COUNTER

1. Turn the key to the "PRG" (PROGRAM) position.
2. If an "X" or a "PRG/Z" Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program an "X" or "PRG/Z" Manager Password, go to Step 3.
3. ENTER (1), ENTER the [Z1 Counter # (4 digits)], then PRESS the [RETURN] key.

TO RESET THE Z2 COUNTER

1. Turn the key to the "PRG" (PROGRAM) position.
2. If an "X" or a "PRG/Z" Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program an "X" or "PRG/Z" Manager Password, go to Step 3.
3. ENTER (2), ENTER the [Z2 Counter # (4 digits)], then PRESS the [RETURN] key.

TO RESET THE GRAND TOTAL

1. Turn the key to the "PRG" (PROGRAM) position.
2. If an "X" or a "PRG/Z" Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program an "X" or "PRG/Z" Manager Password, go to Step 3.
3. ENTER (777777), PRESS the [AMT TEND/TOTAL] key, enter new amount (12 digits), then PRESS the [NON TAX] key.

Example: To reset the Grand Total to 0:

"PRG" + (777777) + [AMT TEND/TOTAL] + "0" + [NON TAX]

TO PRINT A DEPARTMENT RANGE REPORT

1. Turn the key to the "X" position.
2. If an "X" Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program an "X" Password, go to Step 3.
3. ENTER the [Starting Department # (2 digits)], ENTER the [Ending Department # (2 digits)], then PRESS the [AMT TEND/TOTAL] key.

Example: To print the sales totals for departments 3 to 25:

"X" + (03) + (25) + [AMT TEND/TOTAL]

TROUBLESHOOTING

Please select and follow the procedure which best describes the cash register condition:

1. IN CASE OF AN ERROR TONE:

- a. **PRESS** the [CLEAR] key.
- b. **Turn the key to the last position (PRG, REG, X or Z) you were in prior to receiving the error.** If the last position you were in was "REG", **turn the key to the "REG" position and PRESS** the [CLEAR] key, then **PRESS** the [AMT TEND/TOTAL], [CHECK/VALID], or [CHARGE] key to complete a pending sale or if your last position was "PRG", **turn the key to the "PRG" position and PRESS** the [CLEAR] key.
- c. Double check and repeat the procedure you are trying to perform.
- d. If error still persists, perform a HALF SYSTEM CLEAR procedure (see below).
- e. As a last resort, perform a FULL SYSTEM CLEAR procedure (see below).

2. IN CASE SEC CODE ERROR DISPLAYS IN PRG, X OR Z MODES:

- a. This prompt means a Manager Password has been programmed. Enter the password number, **PRESS** [CHECK/VALID] and proceed.

3. IN CASE CLERK ERROR DISPLAYS IN REG 1 OR REG 2 MODES:

- a. This prompt means clerk numbers are programmed and the clerk system is activated. Enter the clerk number and **PRESS** [CLERK] to proceed.

4. IN CASE PE-PRINTER ERROR DISPLAYS:

- a. Check if you are out of paper.
- b. Check for a paper jam. If so, carefully remove any paper obstructing the printer. **CAUTION:** Do not manually pull the paper, always use the paper feed key to remove or advance the paper. **IMPORTANT:** Do not use sharp or pointed instruments in the printer area. This may cause serious damage to your printer.
- c. Once the paper jam has been successfully removed, if "PE" still displays turn the key to the "OFF" position, **unplug the cash register (pause for 10 seconds), and replug.**
- d. If an "E" or "ERROR" displays, **PRESS** the [CLEAR] key.
- e. If an "E" or "ERROR" continues to display, **turn the key to the last position (PRG, REG, X or Z) you were in prior to receiving the error.** If the last position you were in was "REG", **turn the key to the "REG" position and PRESS** the [CLEAR] key, then **PRESS** the [AMT TEND/TOTAL], [CHECK/VALID], or [CHARGE] key to complete a pending sale or if your last position was "PRG", **turn the key to the "PRG" position and PRESS** the [CLEAR] key.
- f. As a last resort, follow the directions for a FULL SYSTEM CLEAR procedure (see Page 76).

5. IF THE CASH REGISTER IS MALFUNCTIONING:

- a. Be sure the cash register is plugged into a working electrical outlet and no other electrical device is using the same power source. Another electrical motor on the same circuit could cause interference with register operations.
- b. Perform a HALF SYSTEM CLEAR procedure (see Page 76).
- c. As a last resort, follow the directions for a FULL SYSTEM CLEAR procedure (see below).
- d. If needed, contact the Royal Customer Support hotline at 800-272-6229 or 908-429-HELP (4357) for additional assistance.

6. OPENING THE DRAWER IN AN EMERGENCY:

Push the drawer opening lever to the left (located at the rear of the bottom of the cash register) to open the drawer in an emergency in case of a power failure or a cash register malfunction.

HALF SYSTEM CLEAR PROCEDURE:

- a. Turn the key to the "OFF" position.
- b. Unplug the cash register from the power source (pause for 10 seconds) and replug the cash register.
- c. Continue with normal operations.

FULL SYSTEM CLEAR PROCEDURE:

Note: This procedure will erase all transaction totals and programming.



- a. Power On.
- b. Turn the key to the "REG" position.
- c. Remove the Journal cover.
- d. Press the reset switch located between the left side of the cover and The printer.
- e. The display will clear for about two seconds and all programming will be erased.
- f. " 0.00" is displayed.
- g. Turn the key to the "PRG" position and reprogram the cash register.

If a problem still persists, call our Customer Service Support Line at 800-272-6229 or 908-429-HELP (4357) or contact a Royal Authorized Service Center. For the location of the one nearest you, call toll free at 888-261-3888 (E.S.T.).

LIMITED WARRANTY

ROYAL ELECTRONIC CASH REGISTER LIMITED WARRANTY

Royal Consumer Business Products, 765 U.S. Highway 202, P.O. Box 6945, Bridgewater, New Jersey 08807 warrants that your NEW Royal Cash Management System is free of defects of workmanship and materials. If there is a defect or malfunction of this cash register, Royal will repair the cash register free of charge as follows:

PARTS: New or comparable rebuilt parts in exchange for defective parts for ONE YEAR from the date of purchase.

LABOR: All labor charges incurred for 90 DAYS are covered from the date of purchase. Cash register must be sent postage prepaid and insured to Royal. Royal will pay return postage, during labor warranty period only.

This warranty does not apply to persons who purchase this product second hand or used.

This warranty does not include adjustments, parts, or repairs required by circumstances beyond the control of Royal, including but not limited to fire or other casualty, accident, neglect, abuse, abnormal use, or battery leakage damages. THERE ARE NO OTHER EXPRESSED WARRANTIES EXCEPT AS STATED HEREIN. AFTER THE PERIOD OF EXPRESSED WARRANTY SET FORTH HEREIN, THERE ARE NO EXPRESSED OR IMPLIED WARRANTIES AND THOSE EXCLUDED INCLUDE THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Royal shall NOT be liable for CONSEQUENTIAL DAMAGES resulting from any failure, defect, or malfunction of this cash register. Some states do not allow limitations on how long an implied warranty lasts and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

TO OBTAIN SERVICE UNDER THE TERMS OF THIS WARRANTY:

- Pack your cash register in the original carton or equivalent.
- Enclose a copy of the bill of sale or other documentation showing original purchase date.
- Enclose a card or note describing the difficulty you have had with the cash register.
Be sure to include your complete name and address.
- Mail the above prepaid and insured to the nearest authorized service location. The Service Center cannot be held responsible for any loss or damage in transit.
For Authorized Service Centers within your local area, please call 800-272-6229, 888-261-3888 or 908-429-4357.

Please retain proof of purchase to establish date of original purchase.

Your warranty starts with the date of original purchase. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

- This warranty is valid only on cash registers purchased, delivered and used in the United States or Canada.

SPECIFICATIONS AND SAFETY

MODEL: Royal Alpha 9150

TYPE: Electronic cash register with alpha numeric printer and 40 departments.

DISPLAY: One line alpha display / one line numeric display

CAPACITY: 7 digit input and 10 digit readout.

PRINTER: ECR exclusive alpha numeric printer.

INK SOURCE: Ribbon (Royal brand PCUA #013020 (Purple)).

PAPER SUPPLY: 38mm (1 1/2" Single Ply Register Tape, Royal brand PCUA #013133)

MEMORY BATTERY PROTECTION: Approximately 30 days after power interruption.

TECHNOLOGY: CMOS RAM

POWER CONSUMPTION: Standby - 28W, Operating - 47W

OPERATING TEMPERATURE: 0-40 Degrees Centigrade (32-104 Degrees Fahrenheit).

DIMENSIONS: 10½" x 16½" x 13½"

WEIGHT: 16.0 lbs.

SAFETY NOTICE

The main outlet for this cash register must be located near the unit and easily accessible.

Do not use this cash register outdoors in the rain or near any source of liquid.

WARNING

"This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to correct the interference.

YOUR BACK-UP POWER SYSTEM: When you are not using your cash register, you should keep it plugged in with the control lock in the "OFF" position. Back-up power is provided via battery, but this should not be used for sustained periods of time.

ROYAL ELECTRONIC CASH REGISTER OPTIONAL WARRANTY EXTENSION

Use this form **ONLY** to purchase the Optional Extended Warranty. This form is not a product registration card. This offer expires 90 days after the date of purchase.

Your ROYAL Electronic Cash Register is built to the highest product standards, backed by our regular limited warranty. However, you may purchase an extension of the labor portion of the regular ROYAL limited warranty:

	REGULAR WARRANTY	EXTENDED WARRANTY
LABOR	3 Months	12 Months
PARTS	12 Months	12 Months

Owner: _____ Phone Number: _____

Address: _____

City: _____ State: _____ Zip: _____

Date of Purchase: _____ Place of Purchase: _____

City: _____ State: _____ Zip: _____

Royal Model Number: _____ Serial Number: _____

IMPORTANT: We cannot process your optional warranty form unless you include (1) a copy of your sales receipt or bill of sale showing original purchase date; and (2) a check or money order for the appropriate amount.

The warranty periods stated herein commence on the date of purchase of the equipment.

To apply for the Royal Extended Warranty Program, follow the procedures listed below:

1. Determine the cost of the warranty program that you choose.

MODEL	EXTENDED WARRANTY
120cx/120nt/125nt/225cx	\$17.50
480nt	\$22.50
482nx/482nt/Alpha 587/Alpha 587cx	\$27.50
8160nt/8150nt/Alpha 9150	\$27.50

2. Complete the Extended Warranty Registration Form above.
3. Attach your check or money order, along with a copy of your sales receipt or other proof of purchase. (Save your original sales receipt to document proof of purchase).
4. Mail to: Royal Consumer Business Products
765 U.S. Highway 202
Bridgewater, New Jersey 08807-0945
ATTN: WARRANTY ADMINISTRATOR

You will be sent a self-stick label to affix to your cash register. This label will enable you to obtain service on your cash register **AT NO CHARGE** from any authorized Service Center or the Royal Corporate Service Center for A FULL 12 MONTHS from your original date of purchase. To obtain information about your nearest authorized service center, call 800-272-6229, 888-261-3888 or 908-429-4357.

Whether or not you select this Warranty Extension Option, your regular limited warranty will still be honored, PROVIDED YOU HAVE YOUR ORIGINAL SALES RECEIPT.

This offer is valid only on cash registers purchased, delivered, and ordered in the United States.

ROYAL Alpha 9150 Electronic Cash Register ACCESSORIES ORDER FORM

ITEM DESCRIPTION	PART NUMBER	COST	TOTAL QUANTITY ORDERED	TOTAL AMOUNT
1. Protective Keytop Cover	013218	\$14.95		
2. Replacement 5 Slot Bill Tray & Drawer (Coin Tray not included)	CD480002	\$30.00		
3. Replacement Coin Tray	CD496001	\$5.00		
4. Duplicate Cash Drawer/Journal Lock Key Set (set of 2 keys)	47300511	\$5.00		
5. Duplicate Control Lock Key Set (6 keys) (PRG-427-023, REG-427-024 & Z-427-012, 2 each)	47100324	\$6.00		
6. Replacement Journal Paper Roll Spindle	10590015	\$6.00		
7. Purple Ribbon Cassette	013020	\$7.99		
8. Owner's Manual (Shipping & Handling is not required when ordering this item only)	A915032599	\$6.00		
- SUBTOTAL -				
\$5.00 HANDLING CHARGE				\$5.00
\$10.00 SHIPPING and HANDLING (Alaska, Hawaii, Puerto Rico and for all foreign countries, payable in U.S. Funds)				
TOTAL REMITTANCE				

PLEASE CHECK PAYMENT METHOD:

☐ Check or Money Order payable to ROYAL CONSUMER BUSINESS PRODUCTS

Charge to:

☐ MasterCard

☐ Visa

☐ Discover

Account # _____

Expiration: ____ / ____

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Signature

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Prices and Availability Subject to Change Without Notice

Listed below and on the following pages of Appendix I are the codes for the established state tax table rates as of February 1, 1998. Every effort has been made to include most state tax table rates. If your particular tax table rate is not included on the list, or if it has changed, it is recommended that you refer to Appendix II for calculating your own state tax table rate.

If additional assistance is necessary, the following product support number can be called during East Coast business hours: 800-272-6229 or (908) 429-4357.

STATES		TAX CODES
Alabama	8%	061-120096-1007-12-13-12-13-12-13-12-1013 Or works as a fixed percentage rate. Base amount is 06¢.
	7.5%	061-120090-1006-13-14-13-13-14-13-13-14-13-14-1013
	7%	071-140098-8-1014-14-14-15-14-14-15-1014
	6%	081-160096-9-1016-17-17-16-17-17-1016
	5.5%	Works as a fixed percentage rate. Base amount is 09¢.
	5%	Works as a fixed percentage rate. Base amount is 10¢.
	4%	121-240096-1013-25-1025
Alaska	5%	251-190095-26-1024-20-20-20-20-1020
	4%	161-240096-17-1021-25-25-25-1025
	2%	241-500050-1025-40-1060 (Note: 1983 2% rate) 251-490098-26-1049-50-1050
	1.5%	331-640096-34-1066-67-67-1066
Arizona	7%	071-140098-8-1014-14-14-15-14-14-15-1014
	6.7%	Works as a fixed percentage rate. Base amount is 07¢.
	6.5%	071-140091-1008-16-15-15-16-15-15-16-15-15-16-1015
	6.1%	Works as a fixed percentage rate. Base amount is 08¢.
	6%	101-160096-11-12-17-17-17-17-1018-16-17-17-16-17-1017
	5.5%	091-180099-1018-18-18-18-18-19-18-18-18-1019
	5%	101-190095-11-17-20-21-1021-20-20-20-20-1020
	4%	121-240096-13-19-23-27-27-1029-25-25-25-1025
Arkansas	6%	Works as a fixed percentage rate. Base amount is 08¢.
	5%	091-190095-1010-20-20-20-20-1020
	4.5%	111-220099-12-22-22-22-22-23-1011-22-22-22-12-1022
	4%	121-240096-13-25-25-25-25-20-1030-25-25-25-1025
	3%	141-330099-15-30-1030-40-30-1030
California	8.5%	Works as a fixed percentage rate. Base amount is 05¢.
	8.25%	Works as a fixed percentage rate. Base amount is 06¢.
	7.75%	Works as a fixed percentage rate. Base amount is 06¢.
	7.5%	Works as a fixed percentage rate. Base amount is 06¢.
	7.25%	Works as a fixed percentage rate. Base amount is 06¢.
	7%	101-140098-10-10-13-14-15-14-15-1016-14-14-14-15-14-14-1015
	6.5%	Works as a fixed percentage rate. Base amount is 07¢.
	6%	101-160096-11-12-17-17-17-17-1018-16-17-17-16-17-1017 (Note: 6% and 7% works as a fixed percentage rate after January 1, 1991. Base amount is 07¢)

Appendix I

-b

STATES		TAX CODES
Indiana	6%	091-160096-1010-20-20-20-20-1020
	5%	121-190095-13-13-21-21-21-1021-20-20-20-1020
		(1993) 091-200100-1010-11-20-20-20-1029
	4%	151-240096-16-1022-25-25-25-1025
Iowa	5%	Works as a fixed percentage rate. Base amount is 09¢.
	4%	121-240096-1013-25-25-25-1025
Kansas	6.4%	Works as a fixed percentage rate. Base amount is 07¢.
	5.9%	081-169440-1009-17-17-17-17-17-17-17-1016
	5.85%	Works as a fixed percentage rate. Base amount is 08¢.
	5%	101-190095-1010-20-20-20-20-1020
	4.5%	111-220099-1012-22-22-22-22-23-22-22-1023
	4%	121-240096-13-25-27-1023-25-25-25-1025
	3%	141-330099-15-25-30-45-30-1039-33-33-1034
Kentucky	6%	081-160096-9-1016-17-17-16-17-17-1016
	5%	101-190095-11-15-21-21-21-1021-20-20-20-1020
Louisiana	8.5%	Works as a fixed percentage rate. Base amount is 05¢.
	8%	061-120096-7-12-13-12-13-12-13-1012-13-12-13-1012
	7.5%	061-120090-7-1013-14-13-13-14-13-13-14-13-13-14-13-13-14-1013
	7%	071-140098-8-1014-14-14-15-14-14-15-1014
	6%	101-160096-1011-14-17-17-16-17-1019
Maine	6%	091-160096-1010-07-17-17-16-17-1026
	5%	101-190095-11-1010-20-20-20-1030
Maryland	6%	081-160096-9-1016-17-17-16-17-17-1016
	5%	191-190095-20-1001-20-20-20-20-1020
Massachusetts	8%	061-120096-1007-12-13-12-1013
	5%	091-190095-1010-20-20-20-20-1020
Michigan	6%	101-160096-11-1014-17-17-16-17-17-1016
	4%	121-240096-13-19-23-27-27-27-1027-25-25-25-1025
Minnesota	10%	041-090090-5-1011-10-10-10-10-1010
	7%	081-140098-9-16-1017-8-9-16-17-17-16-1017
	6.5%	071-140091-1008-16-15-15-16-15-15-16-15-16-15-16-1015
	6%	081-160096-1009-16-17-1017
	5%	091-190095-1010-20-20-20-20-1020
Mississippi	7.25%	Works as a fixed percentage rate. Base amount is 06¢.
	7%	Works as a fixed percentage rate. Base amount is 07¢.
	6%	081-160096-1009-16-17-1017
	5%	111-190095-12-15-21-21-20-1021-20-20-20-1020
Missouri	7.225%	Works as a fixed percentage rate. Base amount is 06¢.
	6.725%	Works as a fixed percentage rate. Base amount is 07¢.
	6.6%	Works as a fixed percentage rate. Base amount is 07¢.
	6.125%	Works as a fixed percentage rate. Base amount is 08¢.
	5.625%	081-160090-1009-18-18-18-17-18-18-18-1017
	5.225%	Works as a fixed percentage rate. Base amount is 09¢.
	5%	091-190095-10-1020-20-20-20-20-1020

STATE TAX TABLE CODES

Appendix I

STATES		TAX CODES
Nebraska	5%	111-190095-12-1018-22-22-22-23-22-22-22-23-1022 (Omaha) 141-190095-15-1015-20-20-20-20-1020
	4%	141-240096-15-1023-25-25-25-1025
	3.5%	141-280098-15-28-1029-28-29-29-28-29-28-1029
Nevada	7%	071-140098-1008-14-14-14-15-14-14-1015
	6.75%	Works as a fixed percentage rate. Base amount is 07¢.
	6.5%	Works as a fixed percentage rate. Base amount is 07¢.
	6%	081-160096-1009-16-17-17-17-16-17-1017
	5.34%	Works as a fixed percentage rate. Base amount is 08¢.
New Hampshire	8%	351-120096-36-0-0-1002-13-12-13-12-13-12-13-1012
	7%	131-140098-14-12-13-12-12-12-13-1013-14-14-14-15-14-14-1015
New Jersey	7%	101-140098-11-1011-14-15-14-14-14-15-1014
	6%	101-160096-1011-12-16-18-16-16-1022
	5%	101-190095-1011-15-21-21-21-1022
New Mexico	6.125%	Works as a fixed percentage rate. Base amount is 08¢.
	6.0625%	Works as a fixed percentage rate. Base amount is 09¢.
	5.8125%	Works as a fixed percentage rate. Base amount is 08¢.
	5%	091-190095-1010-20-20-20-20-20-20-20-1020
	4.875%	Works as a fixed percentage rate. Base amount is 09¢.
	4.75%	101-200095-11-21-1021-21-21-21-21-21-21-21-22-1021
	4.625%	Works as a fixed percentage rate. Base amount is 10¢.
	4.25%	111-200085-12-1024-23-24-1023
New York	8.5%	101-100085-10-1007-12-12-11-12-12-12-11-12-12-12-11-12-12-12-11-1012
	8.25%	Works as a fixed percentage rate. Base amount is 10¢.
	8%	101-120096-11-7-12-13-12-13-12-13-1014-12-1013
	7%	101-140098-11-10-13-14-15-14-15-1016-14-14-14-15-14-14-1015
	4%	121-240096-13-21-25-25-1029-25-25-25-1025
North Carolina	6%	081-160096-1009-16-17-17-16-17-1017
	5%	081-190095-9-15-25-19-18-1024-20-20-20-20-1020
	4.5%	091-220099-10-16-28-22-20-1027-22-22-22-23-22-22-22-1023
	4%	091-240096-10-20-30-25-1028-25-25-25-1025
North Dakota	8%	151-120096-16-0-1010-13-12-13-12-13-12-13-1012
	6%	151-160096-16-1002-17-16-17-17-16-1017
	5.5%	151-180099-16-4-18-18-18-18-1019-18-18-18-18-1019
	5%	151-190095-16-1005-20-20-20-20-1020
	4%	151-240096-16-16-20-20-1029-25-25-25-1025
Ohio	7%	151-140098-0-1016-13-14-15-14-14-15-1015
	6.5%	151-140091-16-0-1015-16-15-15-16-15-16-15-16-15-16-15-1015
	6.25%	151-160100-16-1001-16-1016
	6%	151-160096-16-1002-17-16-17-16-17-1017
	5.75%	151-160092-16-1002-17-18-17-17-18-17-18-17-17-18-17-18-17-17-18-17-17-18-17-17-18-17-18-1017
	5.5%	151-180099-16-3-1018-18-18-18-18-19-18-19-18-18-18-1018 (Hamilton County) 151-180099-16-1003-18-18-18-18-19-18-19-18-18-18-1018
	5%	151-190095-16-1005-20-20-20-20-1020

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STATE TAX TABLE CODES

Appendix I

STATES		TAX CODES
Utah	7.5%	061-120087-1007-14-14-14-14-13-14-14-14-14-13-14-14-14-13-14-14-14-13-14-14-14-14-13-14-14-14-13-14-14-14-14-13-14-14-14-1013
	7.25%	061-120087-1007-14-14-14-14-14-13-14-14-14-14-13-14-14-14-13-14-14-14-14-13-14-14-14-14-13-14-14-14-14-13-14-14-14-14-13
	6%	Works as a fixed percentage rate. Base amount is 08¢.
	5.75%	Works as a fixed percentage rate. Base amount is 08¢.
	5.5%	091-180099-1010-18-18-18-18-18-18-19-18-18-18-18-1019
	5%	091-190095-1010-20-20-20-20-1020
Vermont	5%	101-190095-11-1010-20-20-20-20-1020
	4%	101-240096-11-1015-25-25-25-1025
Virginia	8%	031-120096-4-1015-13-12-13-12-13-12-13-1012
	5%	111-190095-1012-22-22-22-22-23-22-22-22-1023
	4.5%	111-220099-1012-22-22-22-22-23-22-22-22-1022
	4%	141-240096-15-1020-25-25-30-1020
Washington D.C.	9%	051-110099-1006-11-11-11-11-12-11-11-11-1011
	8%	121-120096-1013-4-11-12-11-12-13-15-1022
	6%	121-160096-1013-5-18-18-18-18-1023
	5.75%	Works as a fixed percentage rate. Base amount is 08¢.
Washington State	8.1%	Works as a fixed percentage rate. Base amount is 06¢.
	8%	061-120096-1007-12-13-12-13-12-13-12-1013
	7.9%	Works as a fixed percentage rate. Base amount is 06¢.
	7.8%	Works as a fixed percentage rate. Base amount is 06¢.
	7.5%	061-120090-1013-14-13-13-14-13-13-14-13-13-14-13-13-14-13-13-14-13-1013
	7%	071-140098-1008-14-14-14-15-14-14-1015
West Virginia	6%	051-160096-1011-17-17-17-17-16-16-17-17-17-17-16-16-1017
	5%	051-190095-6-1015-20-20-20-20-1020
Wisconsin	5.5%	Works as a fixed percentage rate. Base amount is 09¢.
	5%	091-190095-1015-20-20-20-20-1020
	4%	121-240096-1013-25-25-25-1025
Wyoming	6%	241-160096-25-0-1025-17-17-1016-17-17-1016
	5%	Works as a fixed percentage rate. Base amount is 24¢.
	4%	241-240096-25-1013-25-25-25-1025
	3%	241-330099-25-1025-34-33-1033

TO PROGRAM A SINGLE FIXED TAX RATE USING A BASE TAX AMOUNT

"PRG" + TAX # + [TAX 1] + BASE TAX AMOUNT + (4) + [TAX 2] + (TAX RATE) + [TAX 2]
(1-4) (2 digits) (4 digits)

Note: If a mistake is made or an error tone sounds during programming the sales tax, press [CLEAR] and start over with Step 3.

Example: If the Base Tax Amount is 10 cents and the Tax Rate is 6%:

1. Turn the key to the "PRG" (PROGRAM) position.
2. If a PRG/Z Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. ENTER (1), then PRESS the [TAX 1] key.
4. ENTER (104), then PRESS the [TAX 2] key.
5. ENTER (6000), then PRESS the [TAX 2] key.

NOTE: To determine the BASE TAX AMOUNT, you will need to obtain a copy of your state's Retail Tax Chart. The base tax amount is the **maximum point where no tax is charged**. For example, if no tax is charged from 0 cents to 10 cents, then 10 cents (maximum point) is the BASE TAX AMOUNT.

CALCULATING STATE TAX TABLE CODES

State Tax Code: Represents a series of codes which are derived from your State's Retail Tax Chart to give you the highest level of accuracy in charging tax.

Important: This section of the manual will give you instructions for figuring your own tax code if your specific state's tax code is not listed in Appendix I. Please take the time to follow the "EXAMPLE TAX CHART" given on (Page II-d) and familiarize yourself with the method of determining the tax code. Then using "THE WORKSHEET" on (Page II-e), duplicate the method of calculating your state tax code by the steps described in this section (to do this you will need to obtain a copy of your state's Retail Tax Chart from your local Tax Office). Once completed write down the tax code and save the information for future reference.

STEP A: For the following, please observe "EXAMPLE TAX CHART", Step A, (Page II-d):

Every tax table consists of tax brackets. Each consecutive tax bracket is assigned a tax which is exactly one cent higher than that assigned to the previous tax bracket. In our "EXAMPLE TAX CHART" a sale from .00 to .12 is not taxed. However, in the next tax bracket a sale from .13 to .31 is taxed one cent. Likewise, in the next tax bracket a sale from .32 to .54 is taxed two cents. The tax table progresses in a similar pattern.

Using "THE WORKSHEET", fill in Step A with the appropriate amounts from your state's Retail Tax Chart as described.

STEP B: For the following, please observe "EXAMPLE TAX CHART", Step B, (Page II-d):

- (1) The difference between the starting amounts of each consecutive tax bracket is called a "breakpoint". Every tax table consists of a particular sequence of breakpoints. In our "EXAMPLE TAX CHART" the difference between .00 and .13 is .13 cents. This .13 is the first breakpoint, likewise, the difference between .13 and .32 is .19 cents. Thus .19 is the second breakpoint. The breakpoints continue in a particular sequence through the entire tax table. It is this particular sequence of breakpoints that is used to determine the programming code.

Using "THE WORKSHEET", fill in Step B by calculating the breakpoints based on your state's Retail Tax Chart as described.

- (2) The sequence of breakpoints is divided into "Regular" and "Irregular" patterns. All tax tables repeat a pattern of irregular breakpoints that lead into a pattern of regular breakpoints. To determine the breakpoint pattern, continue calculating the breakpoints in Part B until you have found the "Regular" repeat breakpoint pattern.

Note the following from our example:

Breakpoints - 13, 19, 23, 27, 27, 29 - represent the "Irregular" breakpoint pattern.

Breakpoints - 25, 25, 25, 25 - represent the "Regular" repeat breakpoint pattern.

The "Regular" repeat breakpoint pattern is a point where you will first see a repetition of one or more numbers which must then add up evenly to (i.e. 100, 200, 300, etc.). In our programming example the "Regular" breakpoint pattern (25, 25, 25, and 25) add up to 100.

Using "THE WORKSHEET", determine the "Regular" breakpoint pattern based on your state's Retail Tax Chart as described.

CALCULATING STATE TAX TABLE CODES

Step C: For the following, please observe "EXAMPLE TAX CHART", Step C, (Page II-d):

The first number to be programmed consists of the Base Tax followed by the number "1". In "PRG" position, type your Base Tax number, followed by the number "1", then press the [TAX 2] key.

- (1) The Base Tax - A base tax is defined by local or state government and refers to the minimum point where no tax is charged. If no tax is charged from .0 cents to .12 cents, then .12 cents is your base tax.
- (2) The Number "1" - The programming mode for a tax table is "1". When programming any tax table code this number will not change.

Example: If the base tax is .12 cents: Enter (121), then press [TAX 2]. The display will show 1.21.

Using "THE WORKSHEET", complete Step A by using the method described.

Step D: For the following, please observe "EXAMPLE TAX CHART", Step D, (Page II-d):

The second number to be programmed is a six digit number. Follow the instructions and examples below to determine your six digit number. In "PRG" position, type the six digit number, then press the [TAX 2] key.

Example: (4% State Tax Table):

(2) 100	(1) 4	(4% Tax Table Rate)
$\times 24$	$\times 24$	(Multiplier)
2400	96	(Result: The six digit number to be programmed is 240096)

- (1) You must first determine the multiplier*. The multiplier is the number which when multiplied by the percentage rate equals a whole number as close as possible to the number 100 and still remaining a 2 digit number. In the example above, the multiplier is 24. The number 4 (the percentage rate) is multiplied by 24 to determine the number 96 which is the last two digits of the 6 digit number to be programmed: $(24 \times 4 = 96)$.

* The easiest way to determine the multiplier is to divide the number 100 by the percentage rate until the result is a whole number as close to 100 as possible and still remaining a 2 digit number.

- (2) The first four digits of the 6 digit number (2400) are determined by multiplying the number 24 by 100 $(24 \times 100 = 2400)$. The final resulting 6 digit number to be programmed is 240096.

Using "THE WORKSHEET", complete Step D by using the method described.

CALCULATING STATE TAX TABLE CODES

Appendix II

Step E: For the following, please observe "EXAMPLE TAX CHART", Step E, (Page II-d):

In "PRG" position, type the individual breakpoints of the "Irregular" breakpoint pattern and the press [TAX 2] key after each breakpoint. Place the number "10" before the last breakpoint entry.

Example: Irregular breakpoint sequence: 13, 19, 23, 27, 27, 1029:

<u>ENTER</u>	<u>PRESS</u>	<u>DISPLAYED</u>
13	[TAX 2]	0.13
19	[TAX 2]	0.19
23	[TAX 2]	0.23
27	[TAX 2]	0.27
27	[TAX 2]	0.27
1029	[TAX 2]	10.29

Using "THE WORKSHEET", complete Step E by using the method described.

Step F: For the following, please observe "EXAMPLE TAX CHART", Step F, (Page II-d):

In "PRG" position, type the individual breakpoints of the "Regular" breakpoint pattern and press the [TAX SHIFT] key after each breakpoint. Place the number "10" before the last breakpoint entry.

Example: Regular breakpoint sequence 25, 25, 25, 1025:

<u>ENTER</u>	<u>PRESS</u>	<u>DISPLAYED</u>
25	[TAX 2]	0.25
25	[TAX 2]	0.25
25	[TAX 2]	0.25
1025	[TAX 2]	10.25

Using "THE WORKSHEET", complete Step F by using the method described.

Step G: For the following, please observe "EXAMPLE TAX CHART", Step G, (Page II-d):

To summarize the steps taken in calculating and programming the State Tax Table Code, combine Steps A through F and maintain for future reference.

NOTE: Programming of the State Tax Table Code is done in the "PRG" position.

121 [TAX 2], 240096 [TAX 2], 13 [TAX 2], 19 [TAX 2], 23 [TAX 2], 23 [TAX 2], 27 [TAX 2], 27 [TAX 2], 1029 [TAX 2], 25 [TAX 2], 25 [TAX 2], 25 [TAX 2], 1025 [TAX 2].

Using "THE WORKSHEET", complete Step G by using the method described.

STEP C: Enter the base tax amount (the minimum point where no tax is charged) followed by the Number "1". Then press the [TAX 2] key.

STEP E: Enter the individual "Irregular" breakpoint pattern. Press the [TAX 2] key after each breakpoint. Place the number "10" before the last "Irregular" breakpoint.
(13, 19, 23, 27, 27, 1029)

STEP 6: To summarize, combine the Steps A through F and maintain the information for future use.

121 [TAX 2]
240096 [TAX 2]
13 [TAX 2]
19 [TAX 2]
23 [TAX 2]
27 [TAX 2]
27 [TAX 2]
1029 [TAX 2]
25 [TAX 2]
25 [TAX 2]
25 [TAX 2]
1025 [TAX 2]

[illegible]

NOTE: A total of 63 breakpoints can be programmed on this cash register.

Appendix II

Write down your results as you go.

STEP 6:

Breakpoints

[illegible]

STEP 1: To select the Canadian Tax System, you must first program Flag 13 as follows:

1. Turn the key to the "PRG" (Program) position.
2. If a PRG/Z Manager Password has been programmed, ENTER the (PASSWORD #), then PRESS the [CHECK/VALID] key, or if you did not program a PRG/Z Manager Password, go to Step 3.
3. PRESS (13)(1), then PRESS the [VOID] key.

STEP 2: This cash register includes the following functions for taxation in Canada.

CANADIAN TAX PROGRAMMING PROCEDURE:

PRG + (TAX #) + [TAX 1] + (MAXIMUM NON-TAXABLE PRICE*) + [NON-TAX] + (TAX RATE) + [TAX 2]
1-4 (up to 6 digits) 0-99.999%

- * The non-taxable limit is used in certain areas where tax is exempted below a certain amount, for example, any amount below \$4.00 is exempted from tax. If there is no non-taxable limit, simply skip the step in brackets in the procedure above.

METHOD 1: GST Tax: 7%
PST Tax: 8%
GST/PST Tax: Both 7% and 8% calculated on net amount

1. Program Tax 1 as 7%:
"PRG" + (1) + [TAX 1] + (7000) + [TAX 2]
2. Program Tax 2 as 8%:
"PRG" + (2) + [TAX 1] + (8000) + [TAX 2]
3. a. Link Tax 1 (7% GST) to the desired Department key:
"PRG" + (00001) + [ST/W/TAX] + 0* + [DEPT KEY]
b. Link Tax 2 (8% PST) to desired Department key:
"PRG" + (00002) + [ST/W/TAX] + 0* + [DEPT KEY]
c. Link both Tax 1 (GST) and Tax 2 (PST) to desired Department key:
"PRG" + (00005) + [ST/W/TAX] + 0* + [DEPT KEY]

* Enter a preset price or '0'.

METHOD 2:

GST Tax:	7%
PST Tax:	8%
GST/PST Tax:	Both 7% and 8% as tax on tax - piggyback calculation

1. Program Tax 1 as 7%:
"PRG" + (1) + [TAX 1] + (7000) + [TAX 2]
2. Program Tax 2 as 8%:
"PRG" + (2) + [TAX 1] + (8000) + [TAX 2]
3. Program Tax 3 as 8%:
"PRG" + (3) + [TAX 1] + (8000) + [TAX 2]

4. a. Link Tax 1 (7% GST) to the desired Department key:
"PRG" + (00001) + [ST/W/TAX] + 0* + [DEPT KEY]
- b. Link Tax 3 (8% PST) to the desired Department key:
"PRG" + (00003) + [ST/W/TAX] + 0* + [DEPT KEY]
- c. Link both Tax 1 (7% GST) and Tax 2 (8% PST) to the desired Department key:
"PRG" + (00005) + [ST/W/TAX] + 0* + [DEPT KEY]
- d. Program for piggyback (tax on tax) calculation for Canada:
"PRG" + (21) + (1) + [VOID]
"PRG" + (22) + (2) + [VOID]

* Enter a preset price or "0".

Note: For other options of Flag 22, see Page 37.

For special calculations of GST and PST Tax, please refer to Flag 22 on Page 37 for programming options.

For customer assistance in Canada, please call 888-266-9380.

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